# Meeting Minutes Transmittal/Approval
## Tri-Party Agreement Milestone Review Meeting
## EPA Conference Room
## Medical Dental Center
## February 27, 1996

From/ Appvl.: K. A. Holten for — Date: 3/26/96
Linda McClain, RL (HO-12)
IAMIT Representative

Appvl.: Michael C. Wilson — Date: 3/26/96
Michael Wilson, Ecology
IAMIT Representative

Appvl.: Douglas R. Sherwood — Date: 3/26/96
Douglas R. Sherwood, EPA (B5-01)
IAMIT Representative

Prepared by Appvl.: Frank T. Calapristi — Date: 3/26/96
Frank T. Calapristi
Westinghouse Hanford Company

### Attendees

| | | | | | |
|---|---|---|---|---|---|
| Alexander, S. M. | Ecology | B5-18 | LeBaron, G. J. | WHC | S6-19 |
| Arnold, L. D. | WHC | B2-35 | Loika, E. F. | WHC | N2-51 |
| Barnard, A | RL | | Mattlin, E. M. | RL | A5-15 |
| Bruggeman, J. M. | RL | HO-12 | Miera, F. R. | RL | A5-15* |
| Calapristi, F. T. | WHC | B2-35* | Oates, K. J. | EPA | B5-01* |
| Chatman, R. K. | BHI | HO-11* | Rasmussen, J. E. | RL | A5-15* |
| Dunkirk, J. H. | BHI | HO-09* | Schlender, M. H. | PNNL | P7-79 |
| Dunigan, P.F.X. | RL | A5-15* | Sherwood, D. R. | EPA | B5-01* |
| Gonzalez, R. X. | RL | R3-79 | Stanley, R. | Ecology-Olympia* | |
| Holten R | RL | HO-12* | Zeisloft, J. H. | RL | HO-12 |
| Hughes, M. C. | BHI | HO-09* | EDMC | WHC | H6-08* |

cc:

| | | | | | |
|---|---|---|---|---|---|
| L. K. McClain | RL | H4-83 | C. A. Hansen | RL | S7-41 |

Meeting Minutes
TPA Milestone Review Meeting
EPA Conference Room
Medical Dental Center
February 27, 1996

1. **Environmental Restoration (TPA Milestones M-13, 15, 16, and 70)**

An outline of the presentation was distributed (Attachment 1). All TPA milestones were reported "on schedule". The change request M-15-95-10 (100-FR-3) was discussed; it was agreed to put the change request on hold until the final action and there is no need for "interim action". The following topics were discussed under "Accomplishments".

- 100 Area Remedial Action - It was reported the ROD for the IU-1/3/4/5 was signed by the three parties.

- 1100 Area and North Slope - The North Slope vegetation was reported as "not complete". RL will contact EPA and Ecology with a projected completion date.

- 100/200 Area Groundwater

  - RL reported the UP-1 groundwater will not be sent to the Effluent Treatment Facility (ETF).

  - The UP-1 and ZP-1 pump and treat systems ran well through the winter.

  - Ecology asked about the development of the ER program to consolidate groundwater systems. RL said there is a 12 million dollar target budget for FY98. This represents a significant reduction in the overall groundwater monitoring program; and will include a proposal for reduced sampling and fewer staff personnel. RL emphasized discussions will be required between RL and the regulators. RL added they will notify the regulators within 30 days for the start of discussions.

- ERDF - July 15 is the target start date.

- D&D - The 183-H was reported as complete. RL reported the 233-S Building deteriorated over the winter and there is a need to accelerate demolition of the complex.

- N Area - Deactivation is going well but there may be some temporary delays in the future. Overall the N Area is looking good.

When discussing "Issues", two subjects were reviewed:

- Remedial Action - EPA disagreed with the RL method for determining compliance with the 100 Area ROD. EPA added they were not aware of any cost benefit in considering "decay", nor does EPA agree

that "institutional control" until 2018 is part of the ROD. RL stated that it was within their authority and their decision when the land will be released. No resolution was reached on this issue at this time.

- Cost and Schedule Performance - EPA expressed a concern about the waste drums in the 200 Area IDW and said we need to get the drums to the ERDF. RL and EPA agreed to this action.

The 183-H Basin was discussed as a "Special Topic". EPA opened the discussion and stated RL wrote a letter to do an ECA on the waste, in order to put the waste in the ERDF. Two points were made during the discussion:

- The 183-H is scheduled to be closed in March 1996.
- The ERDF will not be available until July 1996.

Another option discussed for disposal of the waste was to send the waste to a Low Level burial ground. However, this would be at an increased cost. EPA and Ecology believe a better option is to include the waste in the next 100 Area decision document. There was no decision reached and additional discussions will take place after the meeting.

The final topic was D&D where the discussion focused on an update of the regulations for CERCLA approval.

## 2. Facility Transition

- M-80-00 Purex/$UO_3$ Facility Transition (Attachment 2)

  The Project Managers assessment of contractor performance was reviewed and all categories were rated "Outstanding". The balance of the presentation was completed and there were no issues or action items identified.

- M-81-00 FFTF Facility Transition (Attachment 3)

  The Project Managers assessment of contractor performance was reviewed and all categories were rated "Outstanding". Under the "Issues" discussion, it was noted the Idaho Consent Order will not allow the shipment of Spent Nuclear Fuel until after the year 2000. However, the planned date for shipment is in the Summer of 1997. Options are now being assessed. Consequently, the TPA date may need to be re-negotiated, possibly in early 1998.

- M-83-00 Complete stabilization of PFP (Attachment 4A)

  The Project Managers assessment was reviewed and the categories were rated "marginal" to satisfactory" which were the result of cost and schedule problems. When reviewing the Budget & Cost

Status, it was noted the cost and schedule problems were due to the ROD work curtailment.

Under the "Issues" discussion, RL reported the DNFSB said the Pu needs to be restabilized by the year 2002 to the 3013 standard. A new program, "Breakthrough Thinking" is now being developed to help achieve this goal. A RL letter to Ecology describing the RL management strategy for Pu disposition (Attachment 4B) was distributed for Ecology action.

- M-89-00 324 Building Closure of Mixed Waste Units (Attachment 5)

  The Project Managers assessment was reviewed and the contractor ratings were rated "Marginal to Good". The presentation was completed and there were no issues or action items identified.

AGENDA

TRI-PARTY AGREEMENT MAJOR MILESTONE MANAGEMENT REVIEW

TUESDAY, FEBRUARY 27, 1996

EPA CONFERENCE ROOM
712 SWIFT BLVD., RICHLAND

| TIME | MILESTONE | TITLE | RL DIVISION DIRECTOR | CONTRACTOR MANAGER | PRESENTER |
|---|---|---|---|---|---|
| 9:00 am | M-13-00 | Six (6) RI/FS Work Plans/Year | R. D. Freeberg | T. M. Wintczak | R. D. Freeberg |
| | M-15-00 | RI/FS Process Completion | R. D. Freeberg | T. M. Wintczak | R. D. Freeberg |
| | M-16-00 | Complete Remedial Actions | R. D. Freeberg | T. M. Wintczak | R. D. Freeberg |
| | M-70-00 | ERDF Operation | R. D. Freeberg | T. M. Wintczak | R. D. Freeberg |
| 10:30 am | | BREAK | | | |
| 10:45 am | M-80-00 | Purex/UO3 Facility Transition | J. E. Mecca | D. G. Hamrick | R. X. Gonzalez |
| | M-81-00 | FFTF Facility Transition | J. E. Mecca | E. F. Loika | R. A. Almquist |
| | M-83-00 | Complete Stabilization of PFP | J. E. Mecca | E. C. Vogt | D. W. Templeton |
| | M-89-00 | 324 Bldg. Closure of MW Units | J. W. Wiley | M. H. Schlender | M. A. Barnard |
| 11:30 am | | LUNCH | | | |
| 12:30 pm | | START OF IAMIT MEETING | | | |

**ATTENDEES**

**TPA MILESTONE REVIEW**

**FEBRUARY 27, 1995**

**EPA CONFERENCE ROOM**
**MEDICAL DENTAL CENTER**

| NAME | ORGANIZATION | MAILSTOP | (√) FOR ATTACHMENTS |
|---|---|---|---|
| F. T. CALAPRISTI | WHC/TPAI | B2-35 | ✓ |
| Kevin Oates | EPA | B1-05 | ✓ |
| | | | |
| R. Kim Chatman | BHI | 20-27 | ✓ |
| Michael C. Hughes | BHI | 20-27 | ✓ |
| [illegible] | WHC/TPAI | B2-35 | ✓ |
| Rich Holten | DOE-RL | | ✓ |
| Jim Rasmussen | DOE-RL | A5-15 | ✓ |
| Jean Dunkirk | BHI | | ✓ |
| [illegible] | DOE-RL | | |
| FELIX R MIERA | DOE-RL | A5-15 | ✓ |
| PAUL F-X-DUNIGAN JR. | DOE-RL | A5-15 | ✓ |
| Doug Sherwood | EPA | B5-01 | ✓ |
| ELLEN MATTLIN | DOE-RL | A5-15 | |

ATTENDEES

TPA MILESTONE REVIEW

FEBRUARY 27, 1995

EPA CONFERENCE ROOM
MEDICAL DENTAL CENTER

| NAME | ORGANIZATION | MAILSTOP | (√) FOR ATTACHMENTS |
|---|---|---|---|
| [illegible] | [illegible] | | |
| Rick Gonzalez | DOE | R3-79 | |
| Gregg LeBaron | WHC | S6-19 | |
| Ed Loika | WHC - FFTF | N2-51 | |
| Mike Schlender | PNNL | D-20 | |
| Annette Barnard | DOE LMO | | |
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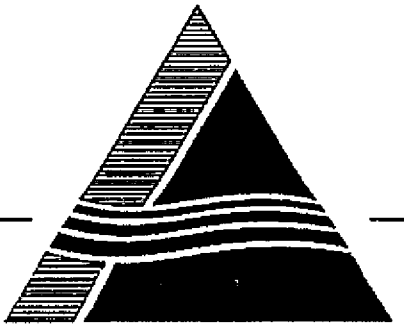
(ATTACHMENT 1)

Richland Environmental Restoration Project

# TPA Quarterly Review




U.S. Department of Energy
U.S. Environmental Protection Agency
Washington State Department of Ecology

**February 27, 1996**

## Tri-Party Agreement Quarterly Review

*Environmental Restoration (Milestones: M-13, M-15, M-16, M-20, M-70)*

# A G E N D A

**February 27, 1996 (9:00 a.m. to 11:00 a.m.)**

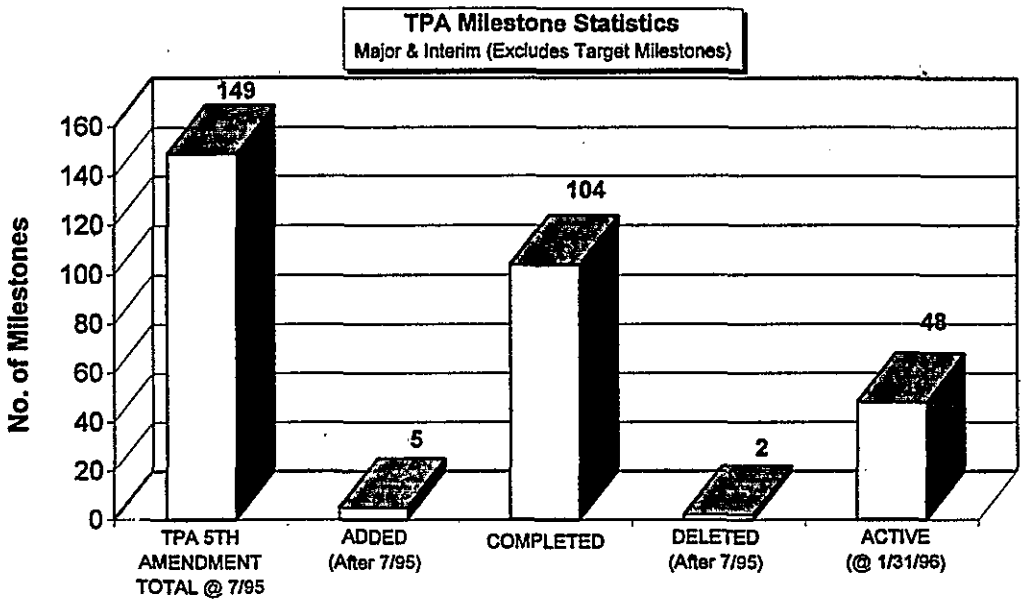
| *Topics* | Discussion Leader | Time |
|---|---|---|
| **Program Assessment & TPA Milestone Overview .....** | Rich Holten | 9:00 AM |
| **Progress / Lookahead.....** | Rich Holten | 9:15 AM |

- 1st Qtr Accomplishments plus January 1996
- 120-Day Milestone Lookahead
- Significant Issues
- Cost & Schedule Performance & Variances (*By Exception*)

| | | | |
|---|---|---|---|
| **Special Topics .....** | | | 10:00 AM |
| 1 | *183-H Solar Basins (Rubble & Soil Disposition)* | Rich Holten | |
| 2 | *D&D under CERCLA - (update)* | Rich Holten | |

# Table of Contents

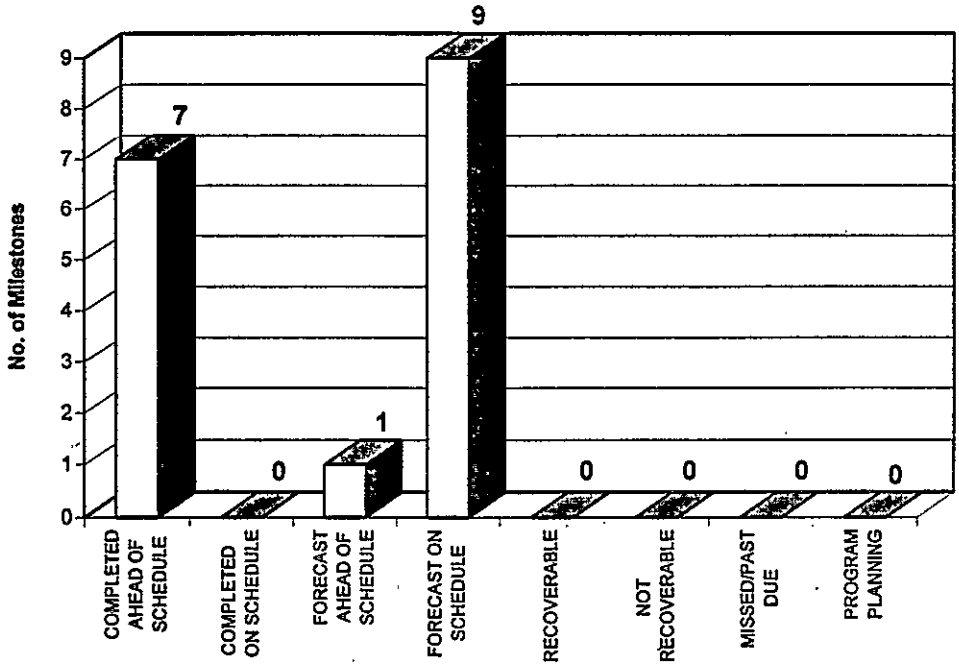
## *FY96 TPA Milestone Overview*

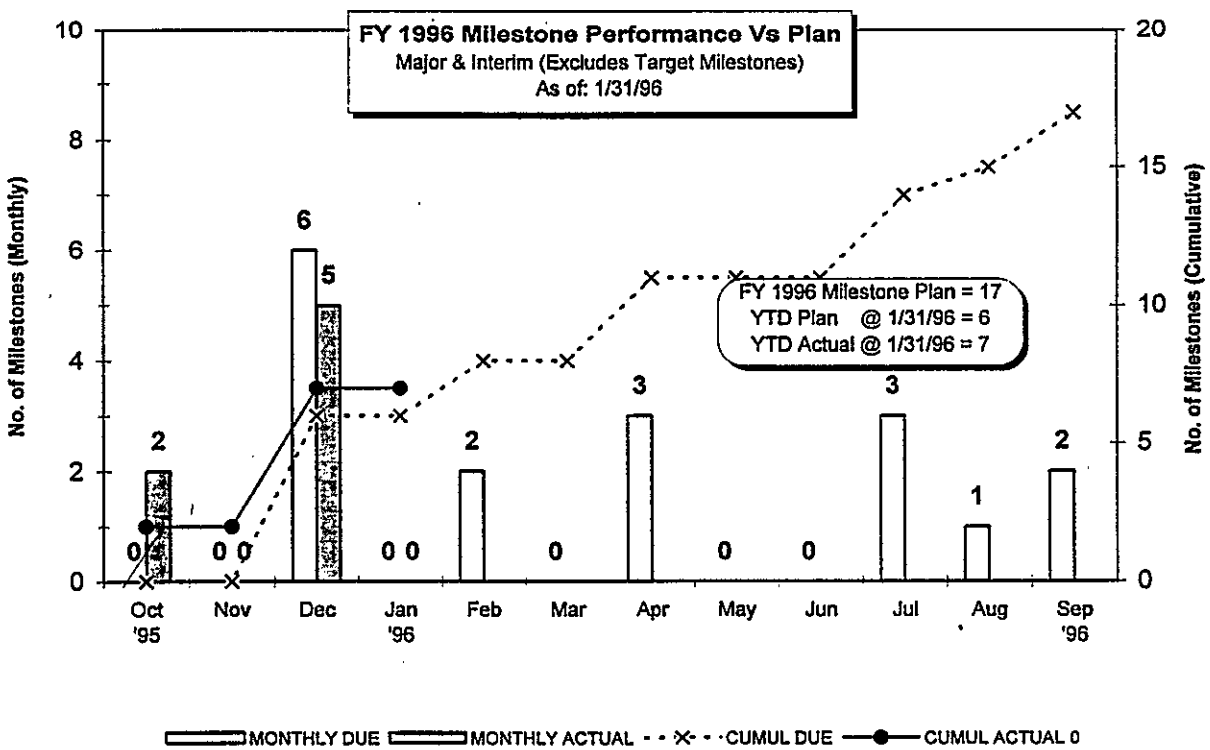



**TPA Milestone Statistics**
Major & Interim (Excludes Target Milestones)

| | Completion Date | Total @7/95 | Added After 7/95 | Completed @ 1/31/96 | Deleted After 7/95 | Active @ 1/31/96 |
|---|---|---|---|---|---|---|
| **M-13-00** Submit Workplans for RFI/CMS or RI/FS Studies | 6/30/06 (M-13-00Q) | 35 | 0 | 19 | 1 | 15 |
| **M-15-00** Site Investigations / Feasibility Studies | 12/31/08 (M-15-00C) | 78 | 5 | 68 | 1 | 14 |
| **M-16-00** Remedial Design / Remedial Action | 9/30/18 (M-16-00) | 20 | 0 | 8 | 0 | 12 |
| **M-20-00** Submit Closure Plans for All RCRA TSD Units | 2/28/00 (M-20-00) | 13 | 0 | 7 | 0 | 6 |
| **M-70-00** ERDF Operational | 9/30/96 (M-70-00) | 3 | 0 | 2 | 0 | 1 |
| **TOTAL** | | 149 | 5 | 104 | 2 | 48 |

# FY 1996 TPA Milestone Performance



## FY 1996 TPA Milestone Summary
## (Excludes Target Milestones)

| Item | FY96 Month | Milestone | Description | Due Date | Forecast Actual Date | Completed Ahead Schedule | Completed On Schedule | Forecast Ahead Schedule | Forecast On Schedule | Recov-erable | UnRecov-erable | Missed Past Due | Program Planning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct-95 | =M-15-21 | Evaluate M-13-06A & submit the IRM Proposed Plan for 200-BP-5 | 10/31/95 | NA | | | | | | | | |
| 1 | Dec-95 | M-15-33B | Submit 100-KR-2 IRM Proposed Plan | 12/29/95 | 10/20/95A | X | | | | | | | |
| | | *M-13-00I | Submit Planning Documentation Necessary to complete the RI/FS Work Plan Process for 100-FR-2 and 100-KR-2(includes former 100-KR-3) | 12/31/95 | 3/31/95A | *X | | | | | | | |
| 2 | | M-16-05A | Submit Construction completion reports for the remaining 1100 Area OUs | 12/31/95 | 12/21/95A | X | | | | | | | |
| 3 | | M-15-81A | Provide report coordinating Regulatory Compliance for RCRA /CERCLA | 12/31/95 | 12/21/95A | X | | | | | | | |
| 4 | | M-15-25 | Submit 200-PO-1 Phase I RCRA Field Investigation (RFI) | 12/31/95 | 12/21/95A | X | | | | | | | |
| 5 | | M-15-13G | Submit the 100-FR-3 FFS to Regulators | 12/31/95 | 12/22/95A | X | | | | | | | |
| 6 | | M-15-13H | Submit the 100-FR-3 Focus Package to Regulators | 12/31/95 | 12/22/95A | X | | | | | | | |
| 7 | Feb-96 | M-16-12E | Submit Letter report that evaluates the P/T Facility effectiveness | 2/28/96 | 2/28/96F | | | | X | | | | |
| 8 | | M-16-12B | Complete Construction/Installation of Sheet Pile Barrier Wall | TBD 2/28/96 | TBD 2/28/96F | | | | X | | | | |
| 9 | Apr-96 | M-15-15C | Submit the Draft 200-UP-2 FFS report to Regulators | 4/30/96 | 4/30/96F | | | | X | | | | |
| 10 | | M-15-15D | Submit the Draft 200-UP-2 IRM Proposed Plans to Regulators | 4/30/96 | 4/30/96F | | | | X | | | | |
| 11 | | M-15-81B | Submit the Iodine 129 Study to Regulators | 4/30/96 | 10/12/95A | X | | | | | | | |
| 12 | Jul-96 | M-15-12A | NR-1/100-NR-2 | 7/31/96 | 7/31/96F | | | | X | | | | |
| 13 | | M-15-80 | Submit a draft interim report for the Columbia River Comprehensive Impact Assessment | 7/31/96 | 7/31/96F | | | | X | | | | |
| 14 | | M-15-25A | Submit 200-PO-1 Corrective Measures Study (CMS) | 7/31/96 | 7/31/96F | | | | X | | | | |
| 15 | Aug-96 | M-15-25B | Submit 200-PO-1 Permit Modification | 8/30/96 | 8/30/96F | | | | X | | | | |
| 16 | Sep-96 | M-15-80A | DOE-RL provides a list of comprehensive work scope tasks developed & prioritized in coordination with the CRCIA Management Team | 9/30/96 | 9/30/96F | | | | X | | | | |
| 17 | | M-70-00 | ERDF is Operational | 9/30/96 | 7/15/96F | | | X | | | | | |
| FY 1996 Total TPA Milestones | | | | | | 7 | 0 | 1 | 9 | 0 | 0 | | 0 |

* FY 1996 TPA Milestone completed in FY 1995 and is not included in count.
= M-15-21 was deleted by the approval of CR# M-15-95-08 dated 9/27/95 and is not included in count.

## This Quarter's TPA Change Requests (October - January 1996)

**M-15-95-09 Columbia River Comprehensive Impact Assessment**

**M-15-80** Submit the Columbia River Comprehensive Impact Assessment to EPA/Ecology(Human & Health Environmental Risk Assessment) [formerly M-13-80B] is changed to: **M-15-80** Submit a draft interim report for the Columbia River Comprehensive Impact Assessment (Human Health & Environmental Risk Assessment) that documents completion of the "Agreed-to FY 1996 Work" detailed on page 3 to EPA, Ecology, Technical Peer Reviewers, CRCIA Management Team, and the public for review - due date *7/31/96*

***Added three new TPA milestones:***

1.) **M-15-80A** DOE provides a list of comprehensive work scope tasks developed and prioritized in coordination with CRCIA Management Team (not based on funding) - due date *9/30/96.*

2.) **M-15-80B** DOE provides a recommendation for follow-on to M-15-80, based on M-15-80A and funding considerations ( to include scope and schedule) - due date *12/31/96.*

3.) **M-15-80-T01** Submit an interim report for the Columbia River Comprehensive Inpact Assessment to EPA/Ecology that incorporates EPA/ Ecology, Technical Peer Review, CIRCIA Management Team, and public comments - due date *10/31/96*

**M-15-95-10 100-FR-3 Operable Unit**

Change the scope of **M-15-13H** from Submit an IRM Proposed Plan to EPA/Ecology due 12/31/95 to: Submit a Focus Sheet to EPA/Ecology - due date *12/31/95.*

## *This Quarters Accomplishments (October - January 1996)*

### B/C

- Completed **116-C-1** Trench excavation. Approximately 16,500 Loose Cubic Yards were excavated
- **116-B-4** French Drain laterals excavation was completed.
- **116-B-5** Crib final lab results were provided to the Regulators
- Completed a soil washing economic study and issued to RL.
- Completed a Rock Screening test.
- Completed a field test of the closed end/retractable plug technology.
- Performed a technology demonstration of the SONSUB soil skimmer at **116-C-1.**

### KR-2

- Submitted IRM Proposed Plan

### DR-2

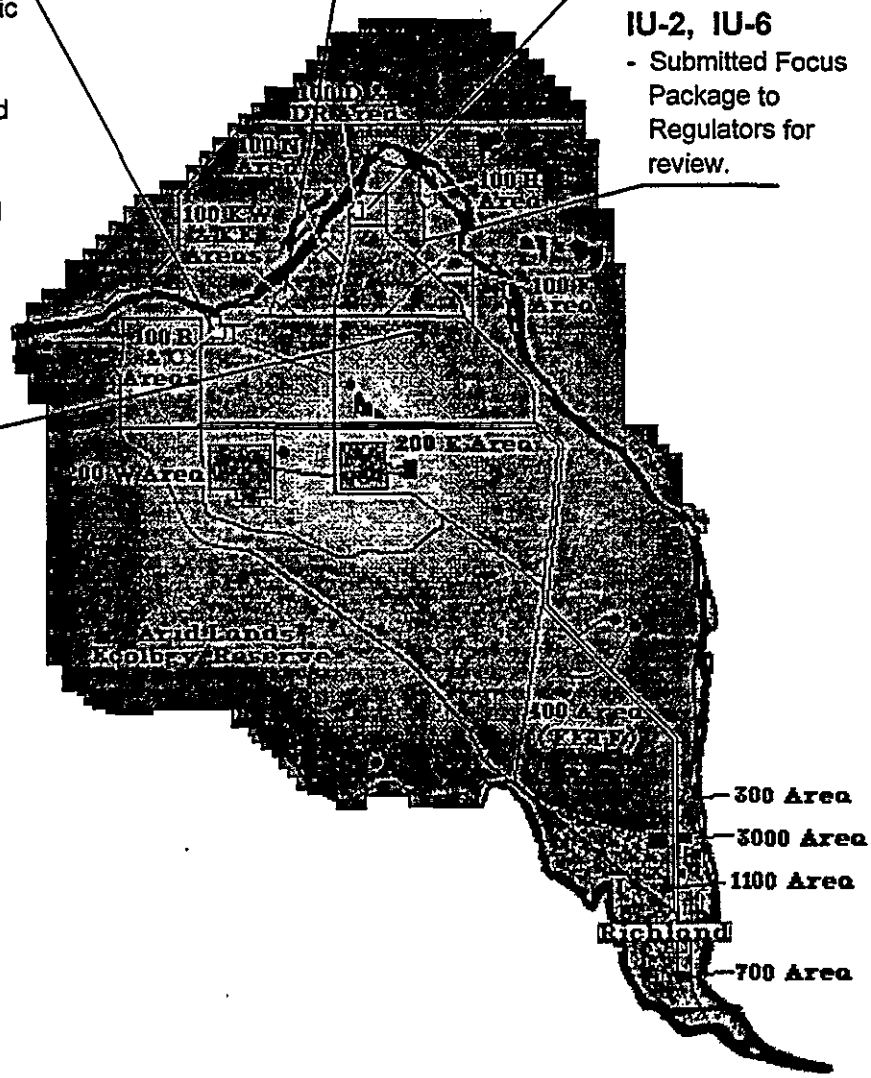
- Submitted IRM Proposed Plan

### IU-2, IU-6

- Submitted Focus Package to Regulators for review.

### IU-1, IU-3, IU-4, IU-5

- Comments were submitted to Ecology on the draft Record of Decision (ROD)

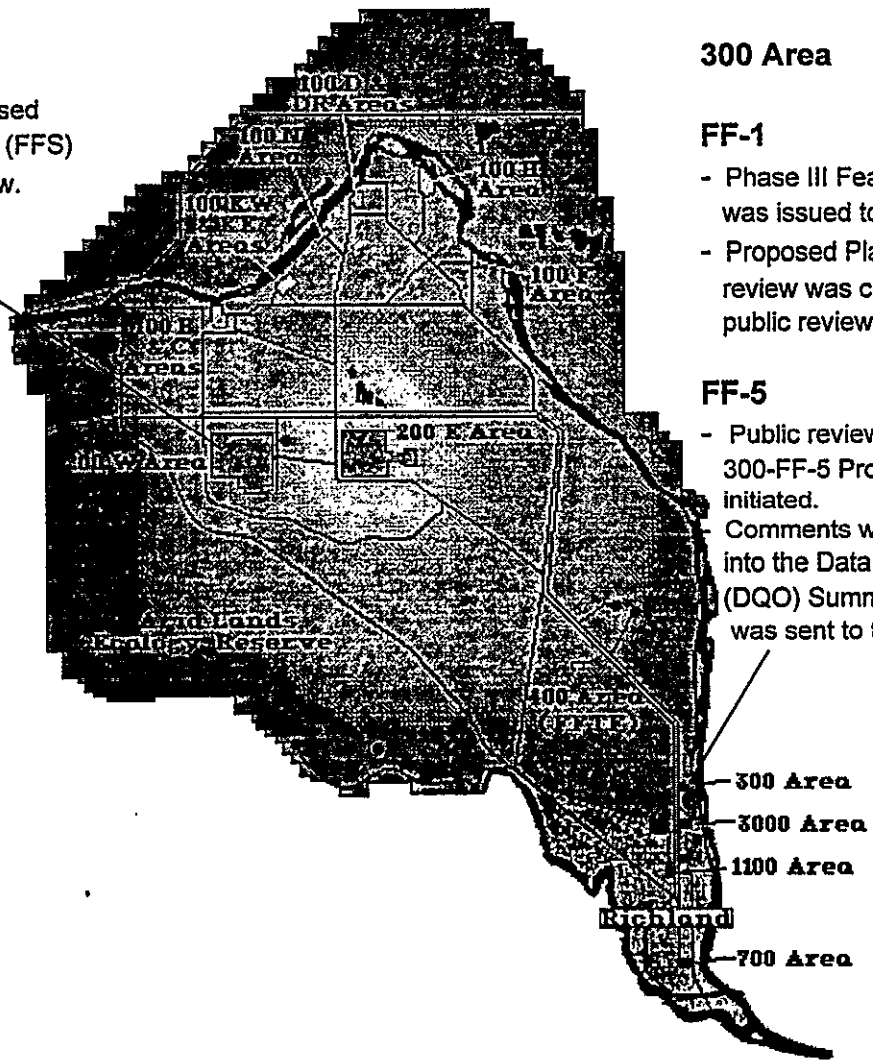


## This Quarters Accomplishments (October - January 1996)

### 200 Area

**UP-2**

- Submitted Focused Feasibility Study (FFS) for internal review.




### 300 Area

**FF-1**

- Phase III Feasibility Study (FS) was issued to the Regulators.
- Proposed Plan advanced review was completed and public review began.

**FF-5**

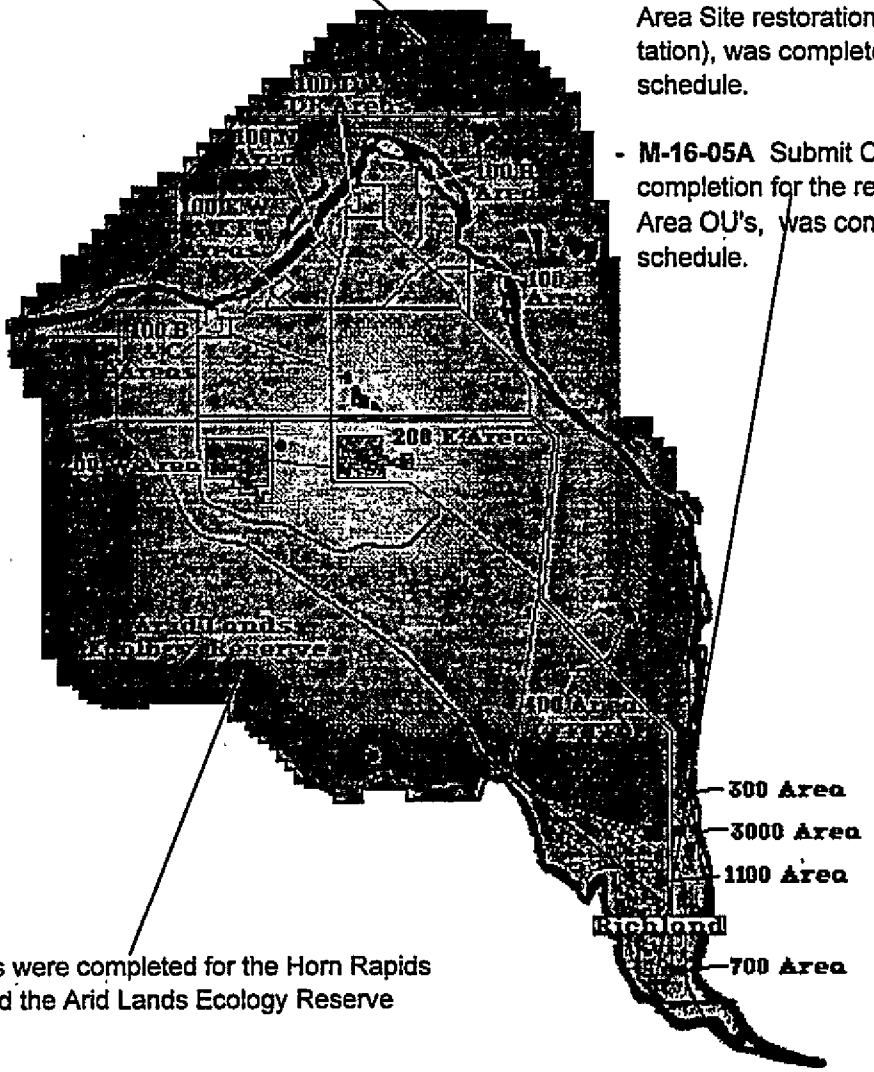
- Public review period for the 300-FF-5 Proposed Plan was initiated.
- Comments were incorporated into the Data Quality Objective (DQO) Summary Report which was sent to the Regulators

## *This Quarters Accomplishments (October - January 1996)*

- ERC is working with RL to release North Slope vegetation work scope to the U.S. Fish and Wildlife Services and the Tribal Nations.

- **M-16-05A-T03** Complete 1100 Area Site restoration (e.g. revegetation), was completed ahead of schedule.

- **M-16-05A** Submit Construction completion for the remaining 1100 Area OU's, was completed ahead of schedule.




- Revegetion plans were completed for the Horn Rapids Landfill (HRL) and the Arid Lands Ecology Reserve (ALE)

- Completed revegetion of the HRL and Horseshoe Landfill and ALE in November.

## *This Quarters Accomplishments (October - January 1996)*

100 Area

### 200 West

**UP-1**
- Treated 5,700K gallons of groundwater (8,700K to-date)
- Completed 2 rounds of Pump & Treat performance monitoring.
- Completed Limited Field Investigation (LFI) including validation of off-site laboratory data
- EE/CP was revised/draft (Rev. 1) based on IRM Proposed Plan public comments and Aquifer Test results in FY95.
- Completed Phase II design Criteria Report.

**ZP-1**
- Treated 2,047K gallons of groundwater (5,300K to-date)
- Phase II Construction continued with the placement of the building foundation.

**ZP-2**
- Soil Vapor Extraction System (VES) removed 13,200 lbs. of Carbon Tetrachloride (149,000 to-date)

**200-AREA NPL**
- **M-15-81A** Submitted RCRA/CERCLA groundwater coordination report.
- **M-15-81B** Submitted Iodine-129 Study

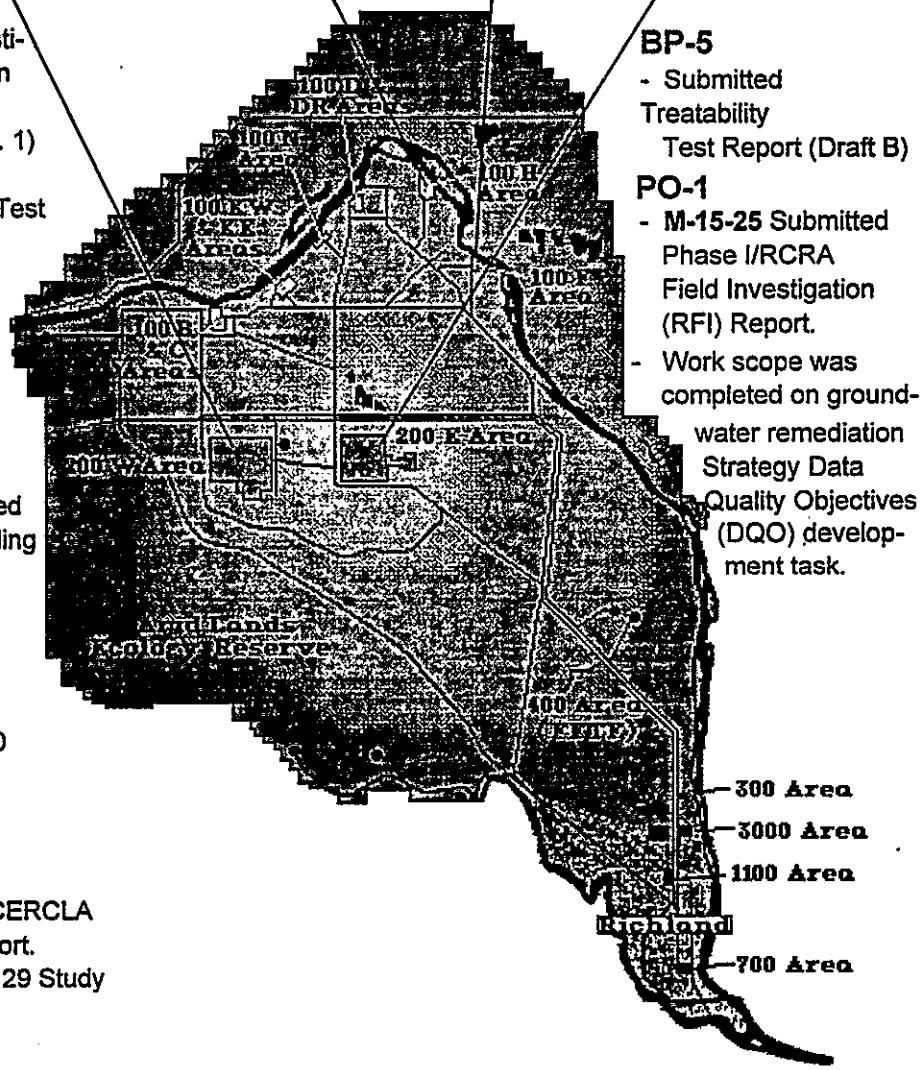
**HR-3**
- Treated 3,500 gallons of groundwater (10,300K to-date)

**FR-3**
- **M-15-13G** Submitted Focused Feasibility Study (FFS)
- **M-15-13H** Submitted Focus Package

### 200 East

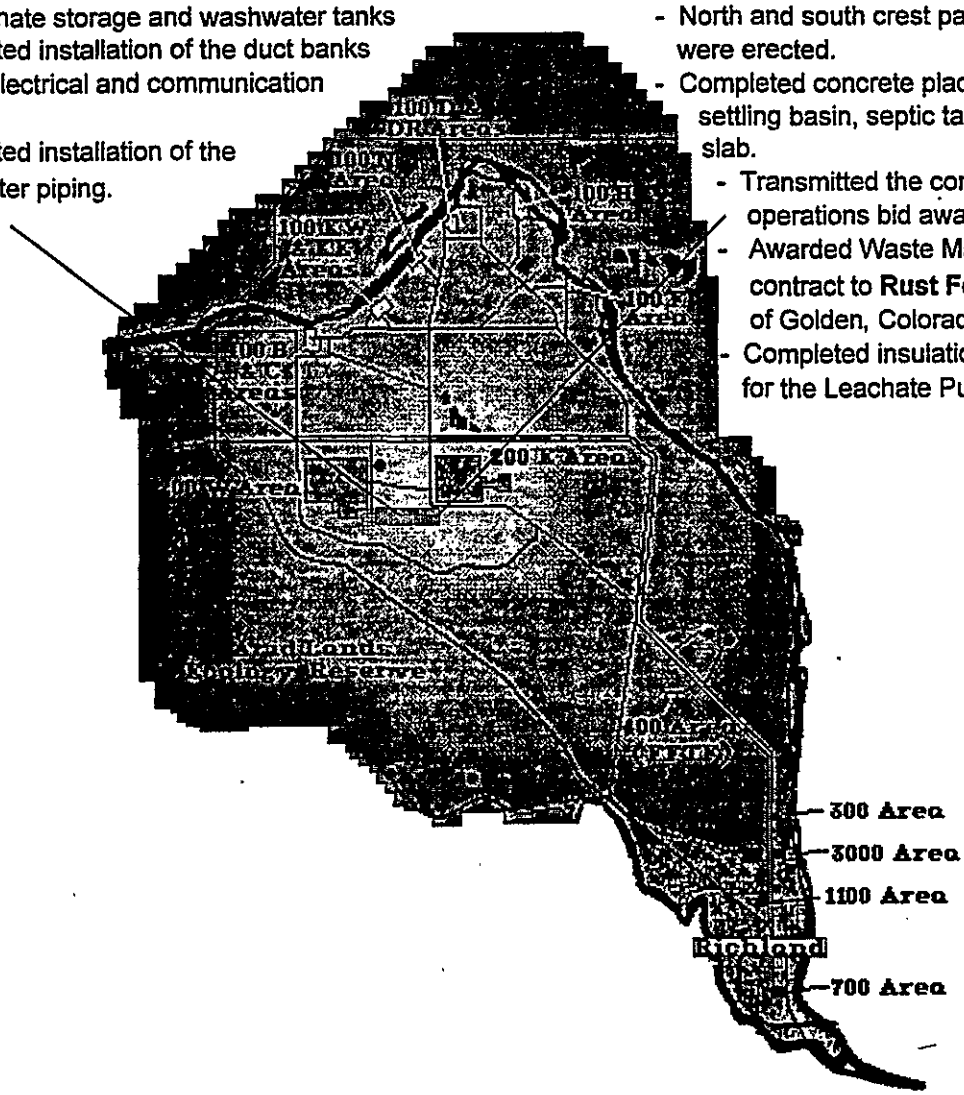
**BP-5**
- Submitted Treatability Test Report (Draft B)

**PO-1**
- **M-15-25** Submitted Phase I/RCRA Field Investigation (RFI) Report.
- Work scope was completed on groundwater remediation Strategy Data Quality Objectives (DQO) development task.



## *This Quarters Accomplishments (October - January 1996)*

- Completed Admix placement with 73,000 Cy for a total of 134,000 Cy.
- Completed installation of the secondary Geomembrane (except for testing & repair), with the installation of welding of 1,160,000 Sq Ft. Began primary Geomembrane.
- Completed the installation of the Secondary Geotextile and drainage gravel.
- Completed installation of the Retention Ring walls for the leachate storage and washwater tanks
- Completed installation of the duct banks for the electrical and communication service.
- Completed installation of the washwater piping.




- Completed erection of the primary structural steel for the Leachate Pumphouse
- Completed concrete placement for the load/unload slab and washdown pad.
- North and south crest pad Control Bldgs. were erected.
- Completed concrete placement for the settling basin, septic tank, and load out slab.
- Transmitted the commercial operations bid award to RL.
- Awarded Waste Management contract to **Rust Federal Services** of Golden, Colorado.
- Completed insulation and siding for the Leachate Pumphouse.

## This Quarters Accomplishments (October - January 1996)

### N-SPRINGS

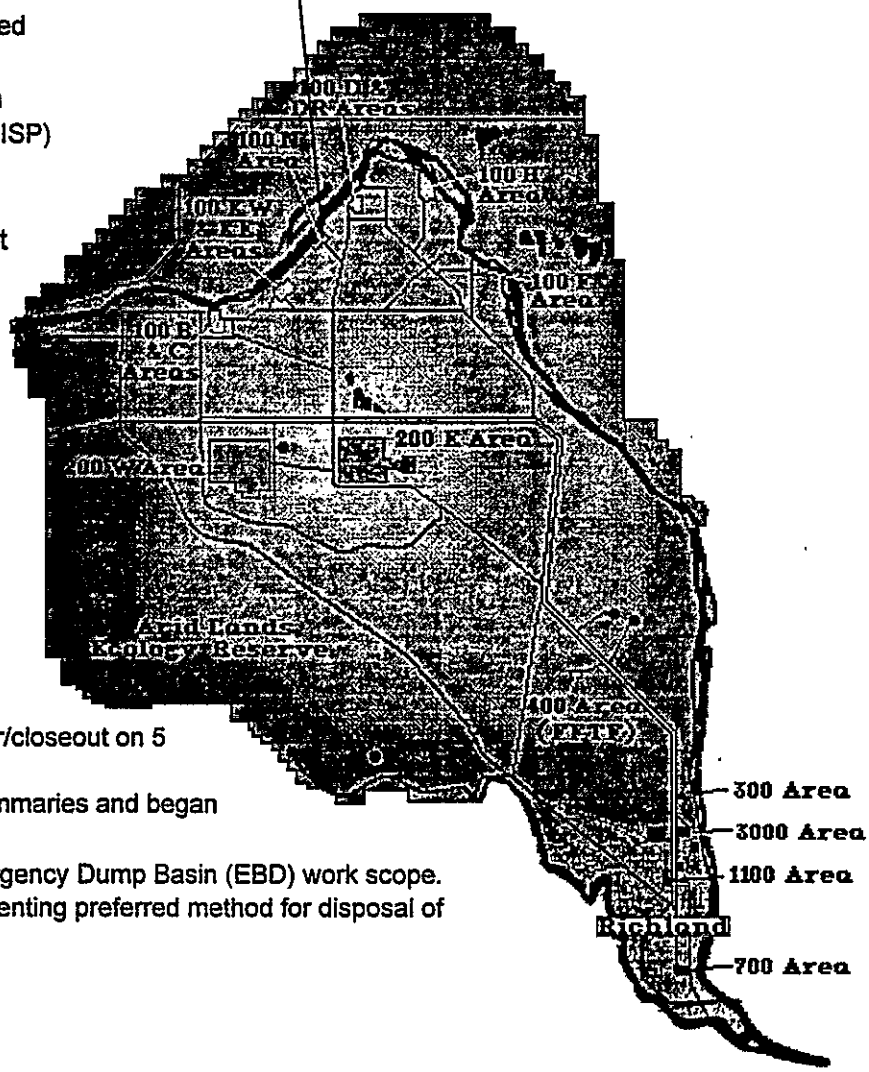
- 2.4 Million gallons were processed with with effluent concentration of less than 42 pCi/L
- N-Springs pump & treat continues to operate at 98-99 % efficiency

### 100-NR

- **1301N/1325N Cribs** Characterization drilling activities were completed ahead of schedule.
- Completed negotiations for an **Incentive Sharing Program** (ISP) for the remaining crib characterization work scope.
- Issued In-Situ Treatability Test Plan

### N-Deactivation

- Completed Phase I Clean-out of 7 facilities out of 21 total.
- Removal of low dose hardware provided modest schedule recovery in December.
- Waste summaries were completed which will allow shipments to begin.
- Completed document turnover/closeout on 5 facilities as scheduled.
- Received approved waste summaries and began shipment of waste backlog.
- Initiated ISP process for Emergency Dump Basin (EBD) work scope.
- Submitted letter report documenting preferred method for disposal of EBD sediment.



## *This Quarters Accomplishments (October - January 1996)*

### RARA

- Completed **216-T-5** Crib interim stabilization.
- Completed Sample Analysis on the **126-F-1** Ash Pit
- Completed demobilization of the **107KE/107KW** retention basins

### Demolition

- **190-D Bldg.** Approximately 70 Cy of miscellaneous concrete rubble was hauled to clearwells for clean disposal.
- Subgrade D&D work package was completed.
- Completed 185-D/189-D roof panel removal.
- **183-C Filter Bldg.** Completed removal of all Asbestos Contaminated Material (ACM) pipe.
- Completed removal of transite roof and walls from the filter pump house.
- Delphinus Engineering was awarded the remote monitoring/quarterly surveillance system for **REDOX 202-S , U-Plant and 221-U Canyon Bldg.**
- Completed surveillances of **REDOX, U-Plant, and Uo3**
- **233-Z** Decontamination activities continued in the change room. Project close-out is estimated to be March 15, 1996.
- **233-S** Complex Demolition - Scientific Ecology Group, Inc. (SEG), has provided ERC with draft passive neutron survey.
- Issued passive neutron survey report on November 20, 1995. The report indicated an inventory of 1630 grams, +725 grams of plutonium 239.
- Completed all field work for this fiscal year.

### RCRA Closures

**183-H** Solar Basins

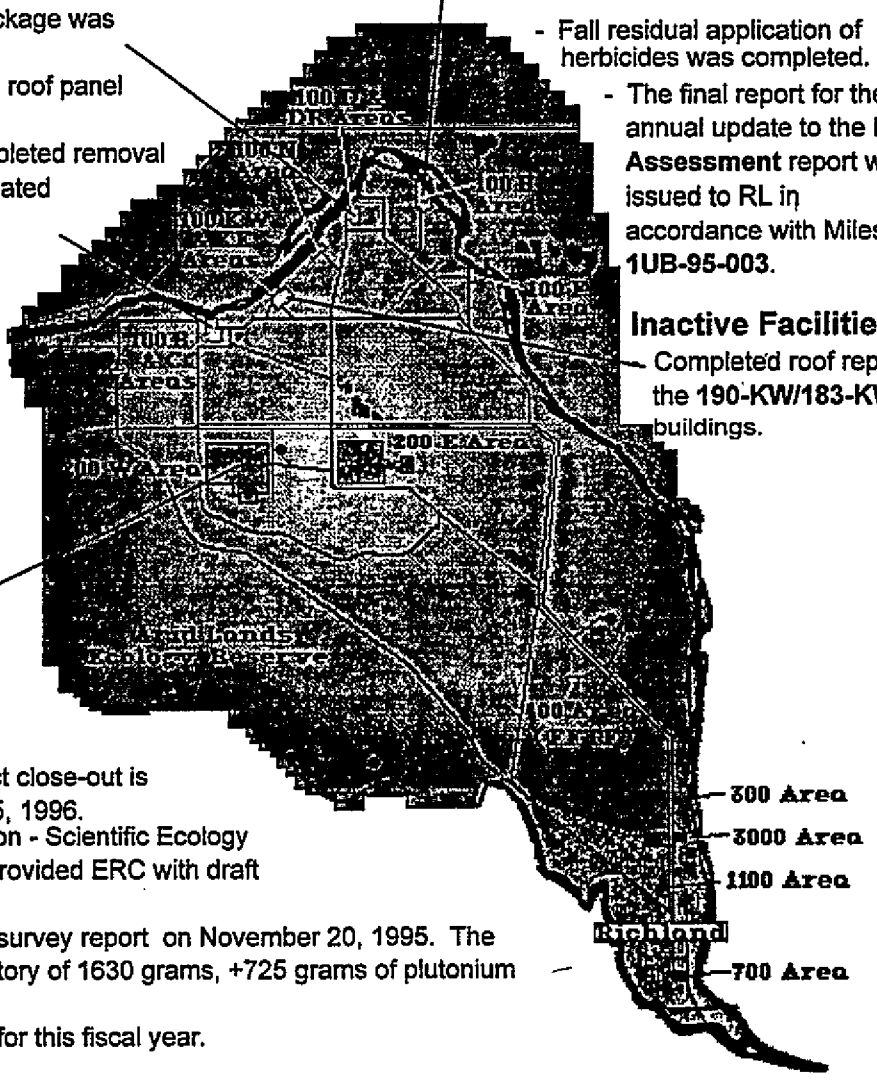
- All radiological documentation efforts were completed
- 80% of the exterior & interior walls have been demolished and placed in the adjoining clearwells
- Floor demolition was initiated in basin #4 as scheduled
- Engineering Evaluation/Cost Analysis (EE/CA) for waste disposal of soils and radiologically contaminated concrete was forwarded to Ecology for review.

### Surveillance & Maintenance

- Fall residual application of herbicides was completed.
- The final report for the annual update to the **Risk Assessment** report was issued to RL in accordance with Milestone **1UB-95-003.**

### Inactive Facilities

- Completed roof repairs to the **190-KW/183-KW** buildings.



## This Quarters Accomplishments (October - January 1996)

### Technology Applications

- Received and tested the electronic magnetic induction (EMI) equipment.
- Completed a review of pulsed-light energy decontamination technology.
- Completed a review and evaluation of two technologies to destroy vapor phase volatile organic compounds (specifically, Carbon Tetrachloride).
- Completed a review of a small air-lift pump, neutral precipitation and cross flow microfiltration.
- Completed an evaluation of a mechanical design assembly software for Windows.
- Completed a review of remote monitoring and control technology
- Completed and distributed the ***Technology Strategy Document.***

### Environmental Technologies

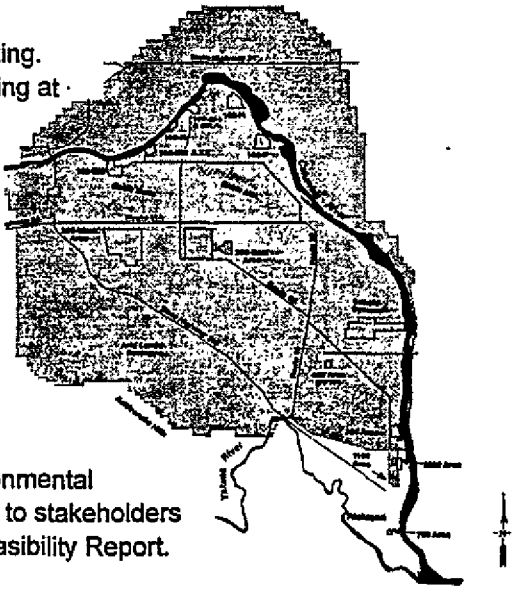
- Prepared text to accompany the Native American Traditional Cultural Values map.
- Participated in the mitigation plan workshop for the Historic Buildings task force.
- Continued the Hanford Environmental Information System transfer from PNNL.
- Gamma Energy Analysis (GEA) spectroscopy results provided by Environmental Analytical Laboratory (EAL), compared results from "split" samples analyzed by other laboratories.
- Completed *"Groundwater Cleanup Discussion"* paper.

### Engineering

- Issued Document Issue Memorandum (DIM).
- Completed final version of the "General Design Criteria for Richland Environmental Restoration Project".
- Completed the update effort for BHI-DOE-01, Design Engineering Procedures".

### Automation

- Completed the "paperless office" POC with an outstanding rating.
- Completed the installation of the B-Lan in the new office building at 3350 George Washington Way.



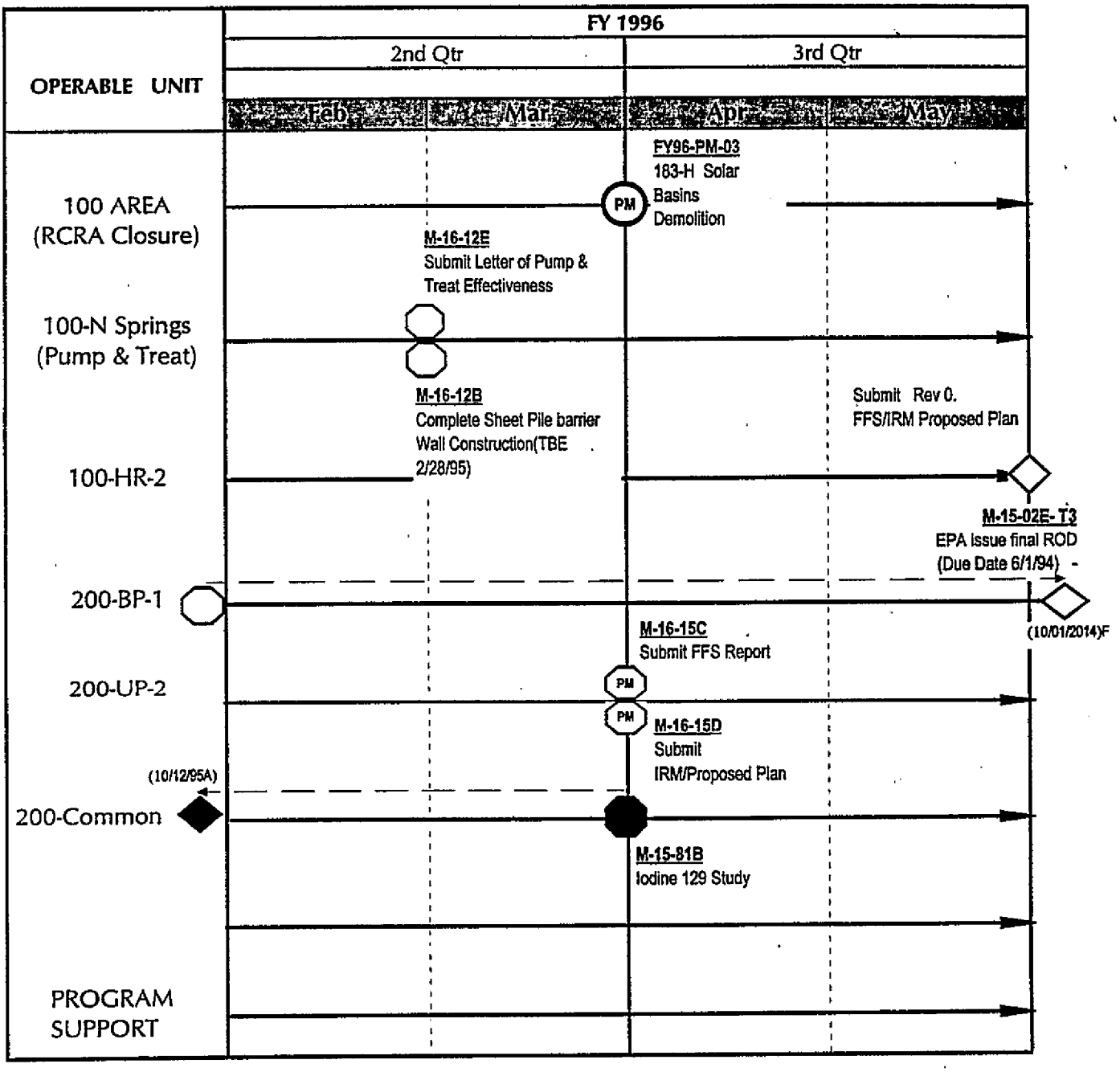
### Site-Wide Services and Facilities

- Completed the new ERC office building at 3350 G.W. Way and moved ERC personnel and DOE-RL along with personnel moves into the Sigma I and Sigma II buildings.
- A draft protocol for conducting Necessary & Sufficient Process Steering Committee, was prepared.

### Program Support and Public Involvement

- **Community Relations:** Public involvement efforts performed for the 100-FR-3 Focus Sheet and the Columbia River Comprehensive Impact Assessment (CRCIA). Developed a presentation for a congressional briefing on the Hanford Environmental Restoration progress. Coordinated the mailing and publication to stakeholders the 300-FF-1 and 300-FF-5 IRM Proposed Plan and Focus Feasibility Report.
- **Project Services**
- **Strategic Planning** - Completed the new volume and cost estimates for the 100/300 Areas. This data was used to update the Long Range Plan, Draft A. The interim study will be presented to the Regulators in February.
- **Baseline Maintenance** - Sent advance copies of the Mission Direction Document to the Regulators, HQ and Hanford Advisory Board (HAB) for review.
- Initiated Management Action Process (MAP).
- The Business Quality Improvement Team (QIT) was reviewed by the Results Management Team (RMT)

## *Milestones - 120 Day Lookahead*
### *(February - May 1996)*




**Legend:**

| | | | |
|---|---|---|---|
| ⬡ | TPA Milestones | ◇ | Forecast |
| PM | HQ Performance Measures | ▽ | HQ Milestones |

## Issues

| Issue | Impact | Corrective Actions |
|---|---|---|
| ♦ Delay in 300 Area ROD | ♦ There may be a potential conflict of schedule sequencing between the 300-FF-1 ROD approval and the Remedial Design completion | ♦ Award the RD subcontract at the end of the public review period on February 14, 1996. A change request will be prepared to revise the new schedule change. |
| ♦ Approval of TPA change request for elimination of the 300-FF-2 Work Plan into LFI Report.<br>♦ 300-FF-2 scope for the Rev. 0 Work Plan is being revised. | ♦ Lack of approval is holding up the start of the LFI which contains elements of the Work Plan<br>♦ The scope and format for the Data Quality Objective (DQO) summary report directly effect the LFI scope and format. | ♦ BHI Engineering and RL are pushing for approval of the TPA change request<br>♦ Meetings were concluded and the DQO summary report was issued. The scope and format for the LFI report has been finalized and work on the LFI has been initiated. |
| ♦ **Remedial Action** -Balancing factors criteria of 15 mrem/year above background criteria will be applied at the time a waste site is remediated. | ♦ Decay to the year 2018 and back-calculating of concentration for specific radionuclides will not be applied for compliance consideration. As specified in the ROD for deep, large volume waste sites, decay may not be considered a balancing factor. | ♦ RL is negotiating with the Regulators to agree on 15 mrem/year above background criteria based on the decay to the year 2018 as a balancing factor |
| ♦ **Groundwater Management** - The liquid waste issue is resulting in a continued build up of drums containing drill cuttings and other materials. | ♦ This requires continued waste management monitoring and support. | ♦ Regulatory relief will be obtained through a "Contained In" determination for on-site use. |
| ♦ Operations of 200-ZP-1 Pump and Treat. | ♦ TSD monitoring and low level burial grounds | ♦ RCRA quarterly reports to include statement pertaining to ZP-1 impact - revise monitoring approach. |
| ♦ 200-UP-1 IRM as a result of public comments, the Effluent Treatment Facility (ETF) is being considered as a treatment technology. | ♦ RL has directed the ERC to stop work on Phase II upgrades while this option is being evaluated. | ♦ A standard contractual relationship will the ETF will be developed between EM-30 and EM-40 if the ETF option is approved by RL. |

## Issues

| Issue | Impact | Corrective Actions |
|---|---|---|
| ♦ TPA Milestones "at Risk" based on Multi-Year Work Plan (MYWP)<br>♦ **M-16-01A**, Submit necessary 100-N Area D&D NEPA documentation for public review, due 6/30/97.<br>♦ **M-13-11**, Submit 200-PO-2 RFI/CMS Closure/Postclosure Workplan, due 6/30/98.<br>♦ **M-20-33**, Submit 216-A-10 Crib and 216-A-36B Crib Closure/Postclosure Work - plan, in coordination with 200-PO-2 Workplan, due 6/30/98. | ♦ Missed milestones due to lack of funding for Environmental Restoration. | ♦ Process change requests, as appropriate, to adjust milestone schedules in line with funding levels and agreed upon work priorities. |

FY 1996 Cost & Schedule Performance and Variance Summary

# Work Breakdown Structure

*(For Performance Graphs)*

## *Remedial Actions*

| | |
|---|---|
| ADS - 3100 | 100 - DR Operable Unit |
| ADS - 3105 | 100 - BC Operable Unit |
| ADS - 3110 | 100 - KR Operable Unit |
| ADS - 3115 | 100 - FR Operable Unit |
| ADS - 3120 | 100 - HR Operable Unit |
| ADS - 3200 | 200 - BP Operable Unit |
| ADS - 3230 | 200 - UP Operable Unit |
| ADS - 3300 | 300 - FF Operable Unit |
| ADS - 3390 | 1100 - EM Operable Unit |

## *Ground Water Management*

| | |
|---|---|
| ADS - 3105 | 100 - BC Operable Unit |
| ADS - 3110 | 100 - KR Operable Unit |
| ADS - 3115 | 100 - FR Operable Unit |
| ADS - 3120 | 100 - HR Operable Unit |
| ADS - 3200 | 200 - BP Operable Unit |
| ADS - 3210 | 200 - PO Operable Unit |
| ADS - 3230 | 200 - UP Operable Unit |
| ADS - 3235 | 200 - ZP Operable Unit |

## *Disposal Facilities*

| | |
|---|---|
| ADS - 3700 | Disposal Facilities |

## *N-Area Deactivation*

| | |
|---|---|
| ADS - 3600 | N - Reactor |
| ADS - 3125 | 100 - NR Operable Unit |

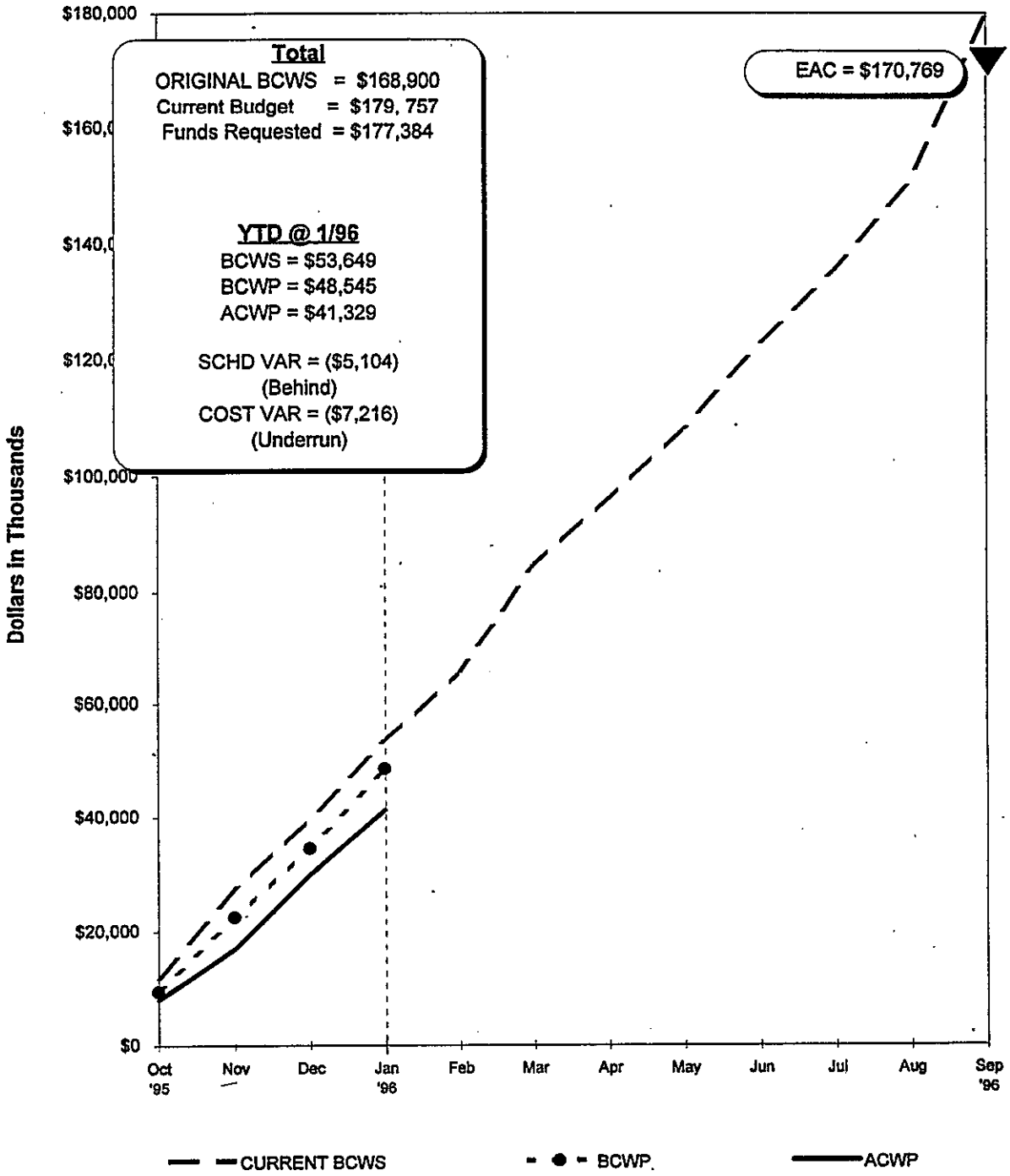
## *D & D*

| | |
|---|---|
| ADS - 3010 | RARA / USTs |
| ADS - 3020 | RCRA Closures |
| ADS - 3500 | Asbestos Abatement |
| ADS - 3510 | 100 Area D&D |
| ADS - 3520 | 200 Area D&D |
| ADS - 3800 | Long Term S&M |

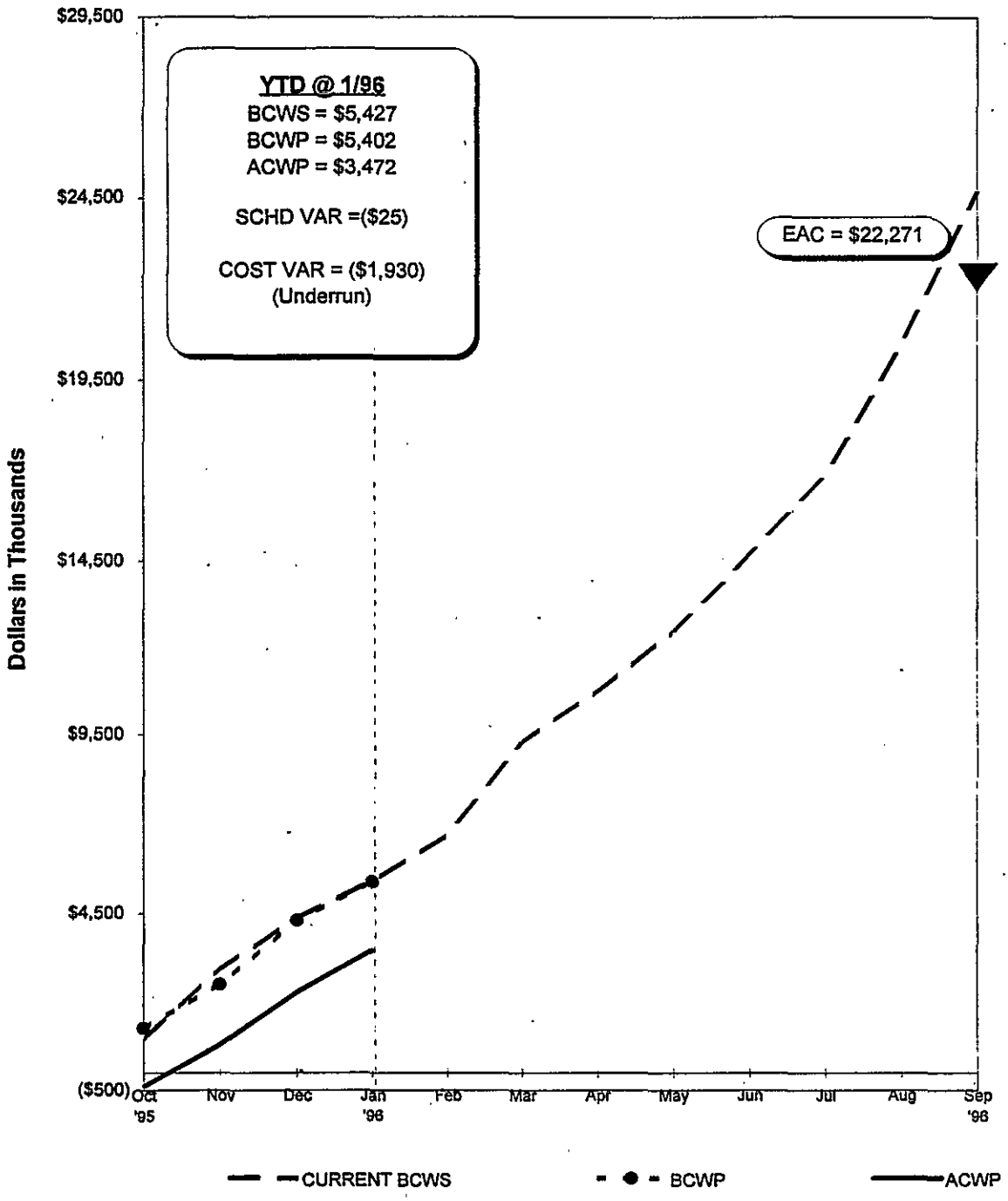
## *Support Projects*

| | |
|---|---|
| ADS - 3400 | Program Support - BHI |
| ADS - 3410 | Program Support - RL, USACE, PNL |

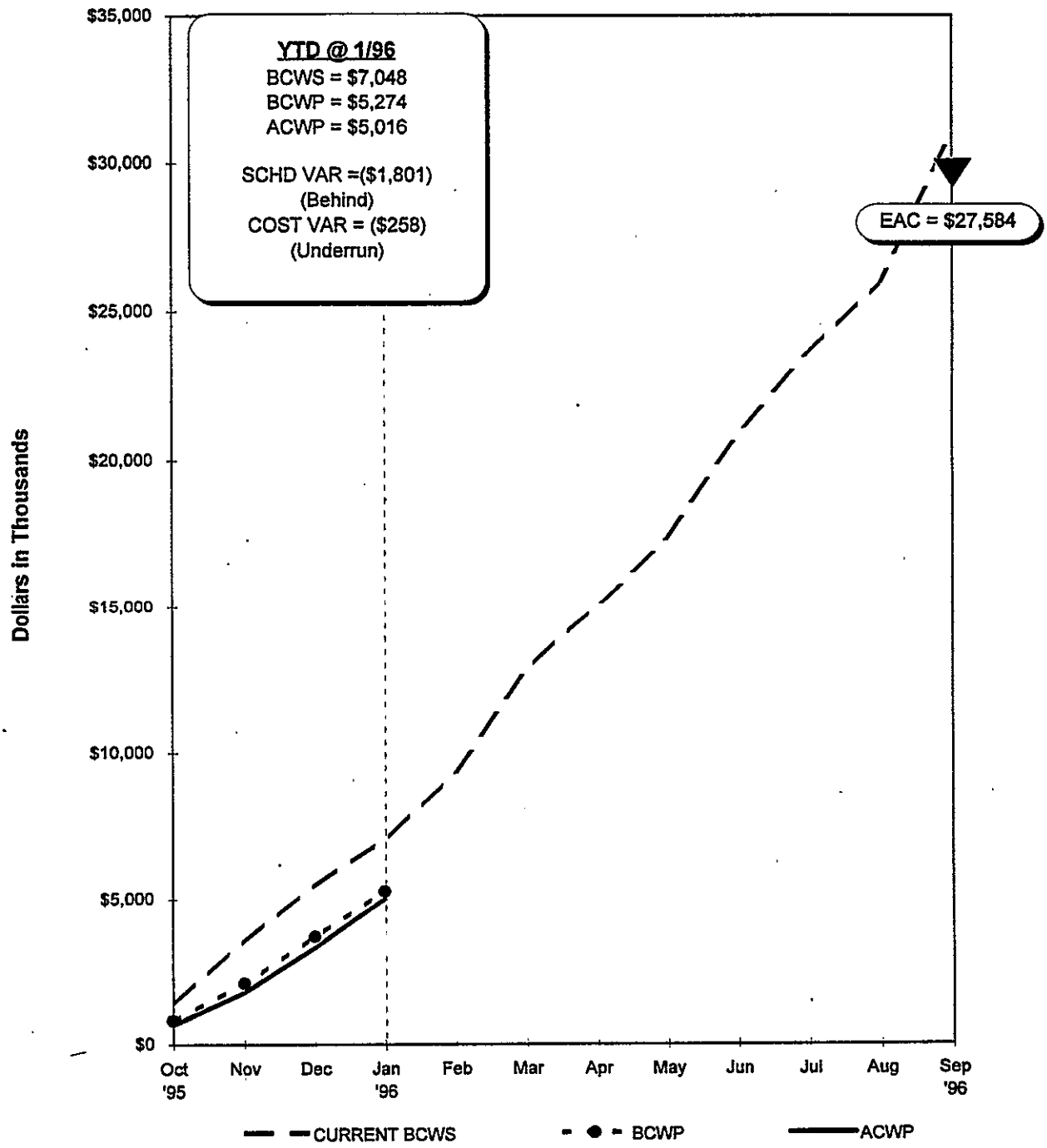
# FY 1996 Total ER Performance Summary



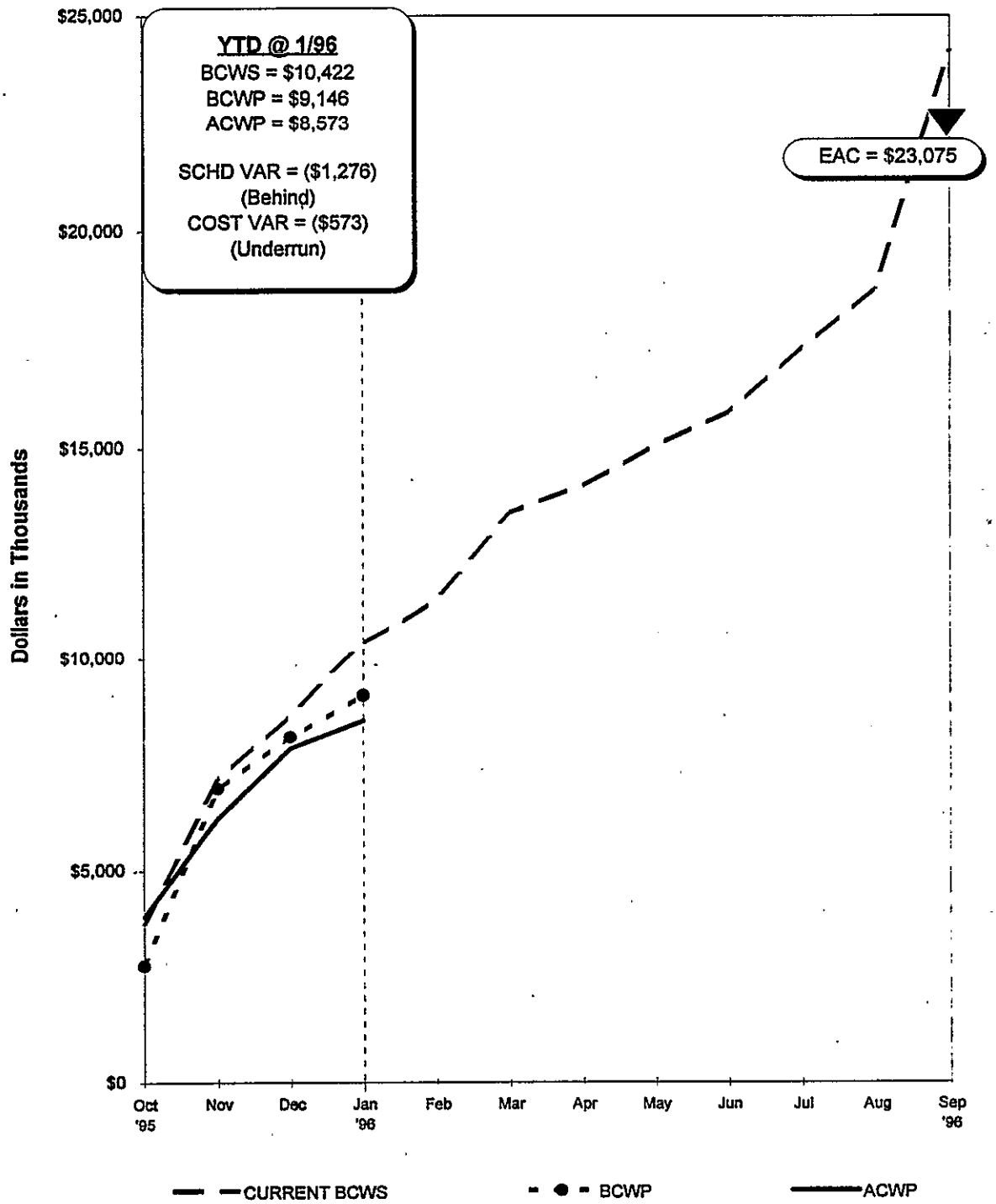
## FY 1996 Remedial Actions Performance



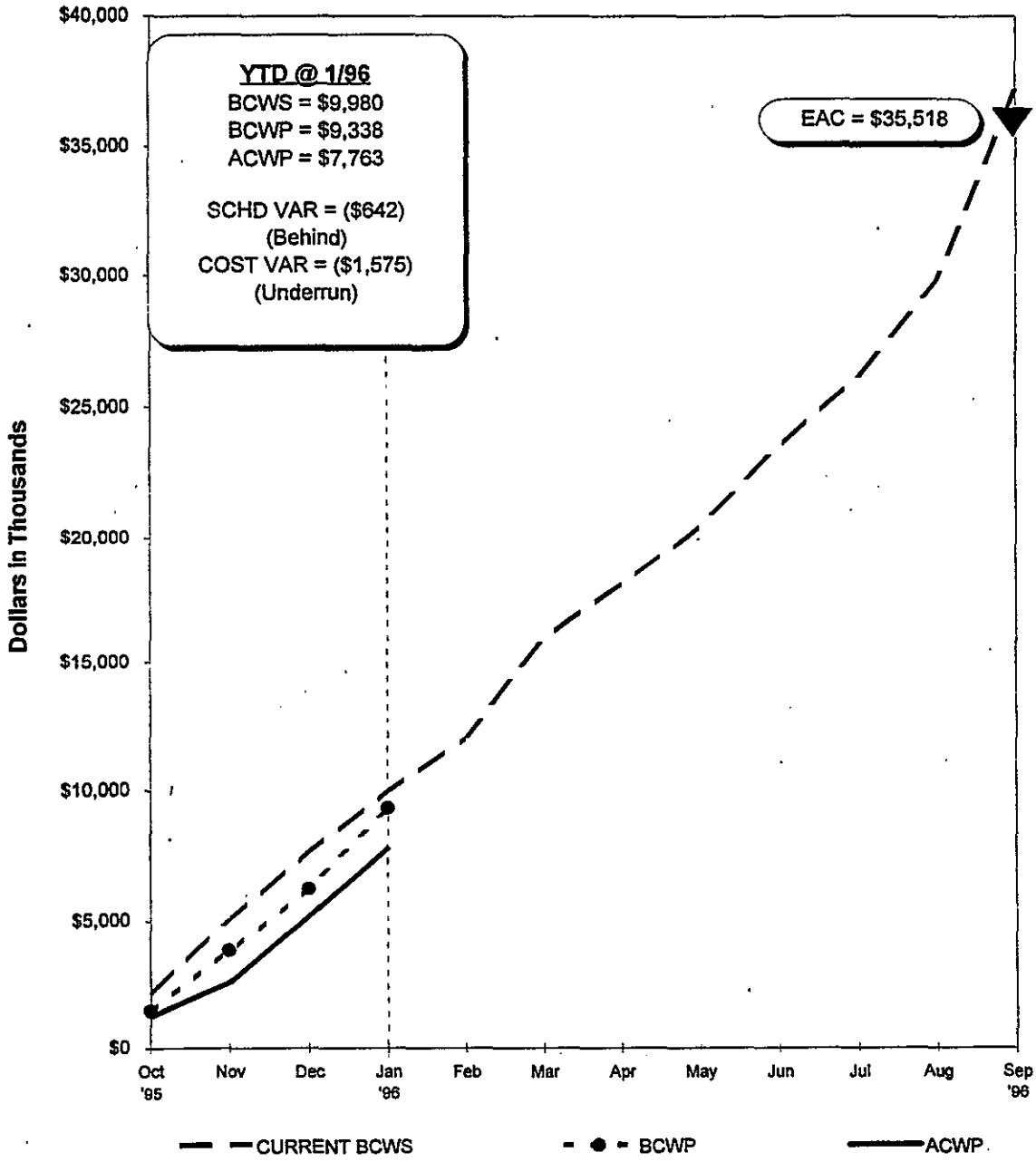
## FY 1996 Groundwater Management

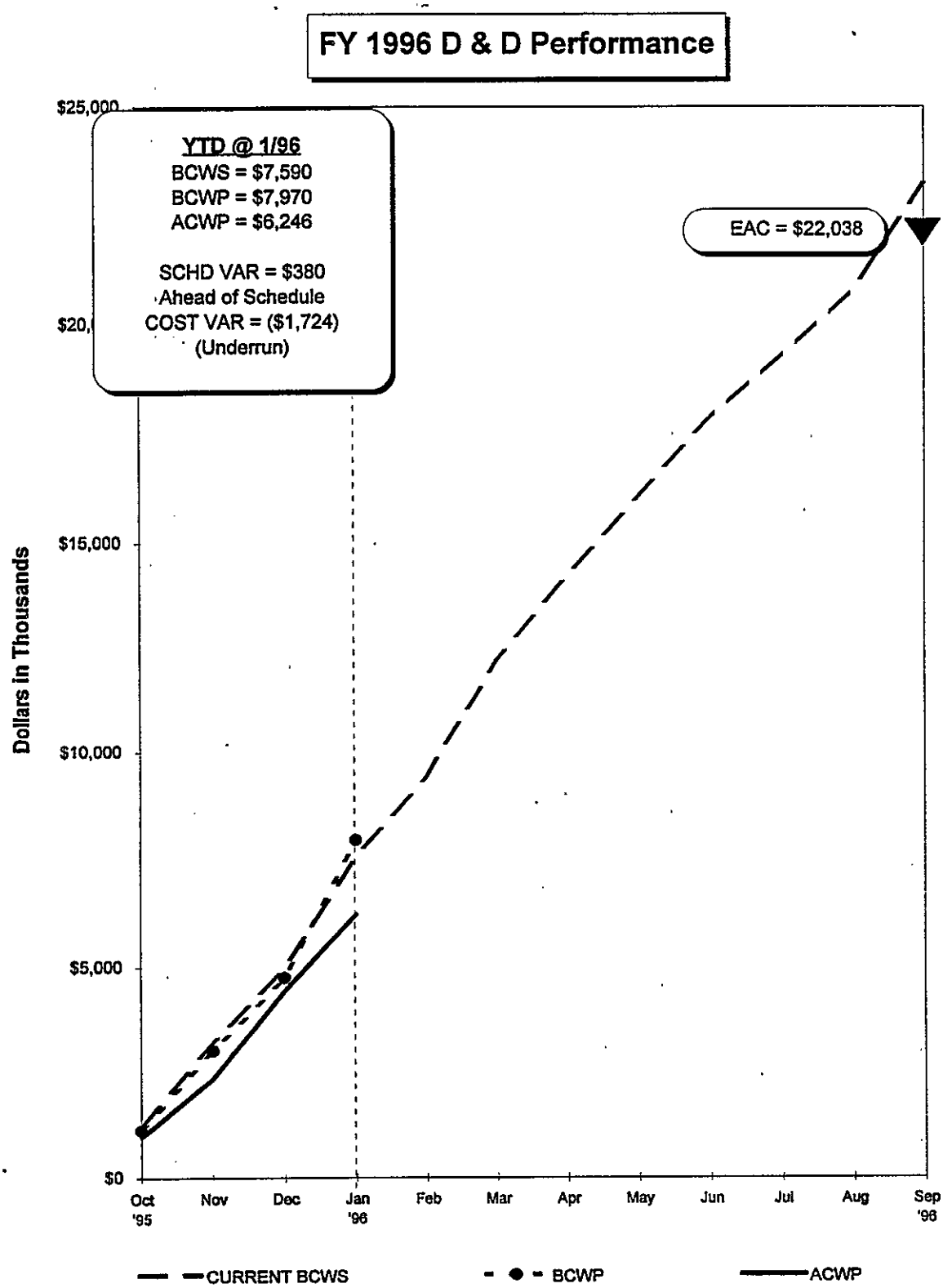


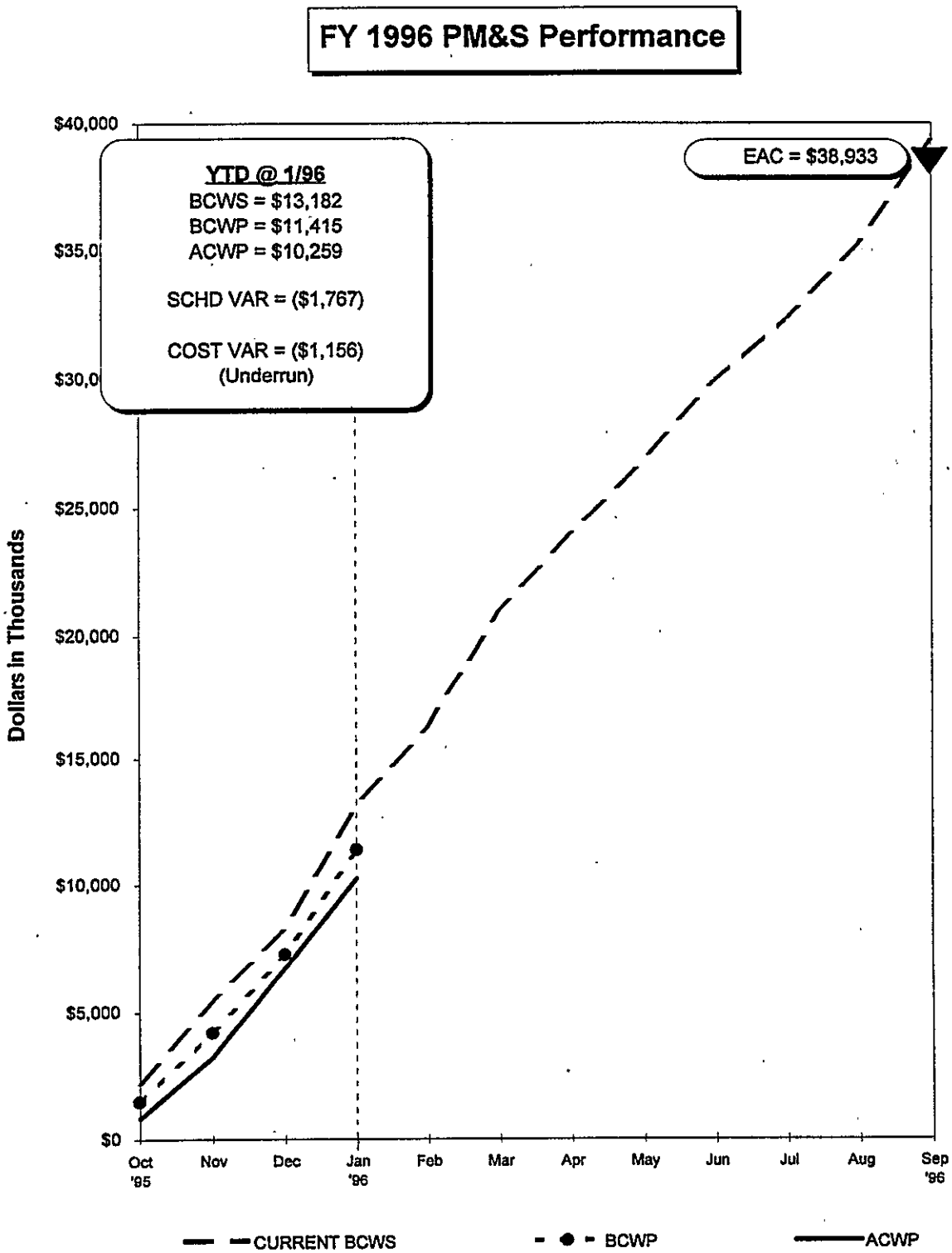
## FY 1996 ERDF Performance



## FY 1996 100N - Area Deactivation Performance




FY 1996 D & D Performance
YTD @ 1/96
BCWS = $7,590
BCWP = $7,970
ACWP = $6,246
SCHD VAR = $380
Ahead of Schedule
COST VAR = ($1,724)
(Underrun)
EAC = $22,038
$25,000
$20,
$15,000
$10,000
$5,000
$0
Dollars in Thousands
Oct '95
Nov
Dec
Jan '96
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep '96
CURRENT BCWS
BCWP
ACWP


FY 1996 PM&S Performance
YTD @ 1/96
BCWS = $13,182
BCWP = $11,415
ACWP = $10,259
SCHD VAR = ($1,767)
COST VAR = ($1,156)
(Underrun)
EAC = $38,933
Dollars in Thousands
$40,000
$35,0
$30,0
$25,000
$20,000
$15,000
$10,000
$5,000
$0
Oct '95
Nov
Dec
Jan '96
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep '96
CURRENT BCWS
BCWP
ACWP

## FY 1996 - Schedule / Cost Variance Summary

***Schedule Variances (>$400 thousand @ ADS Level):***

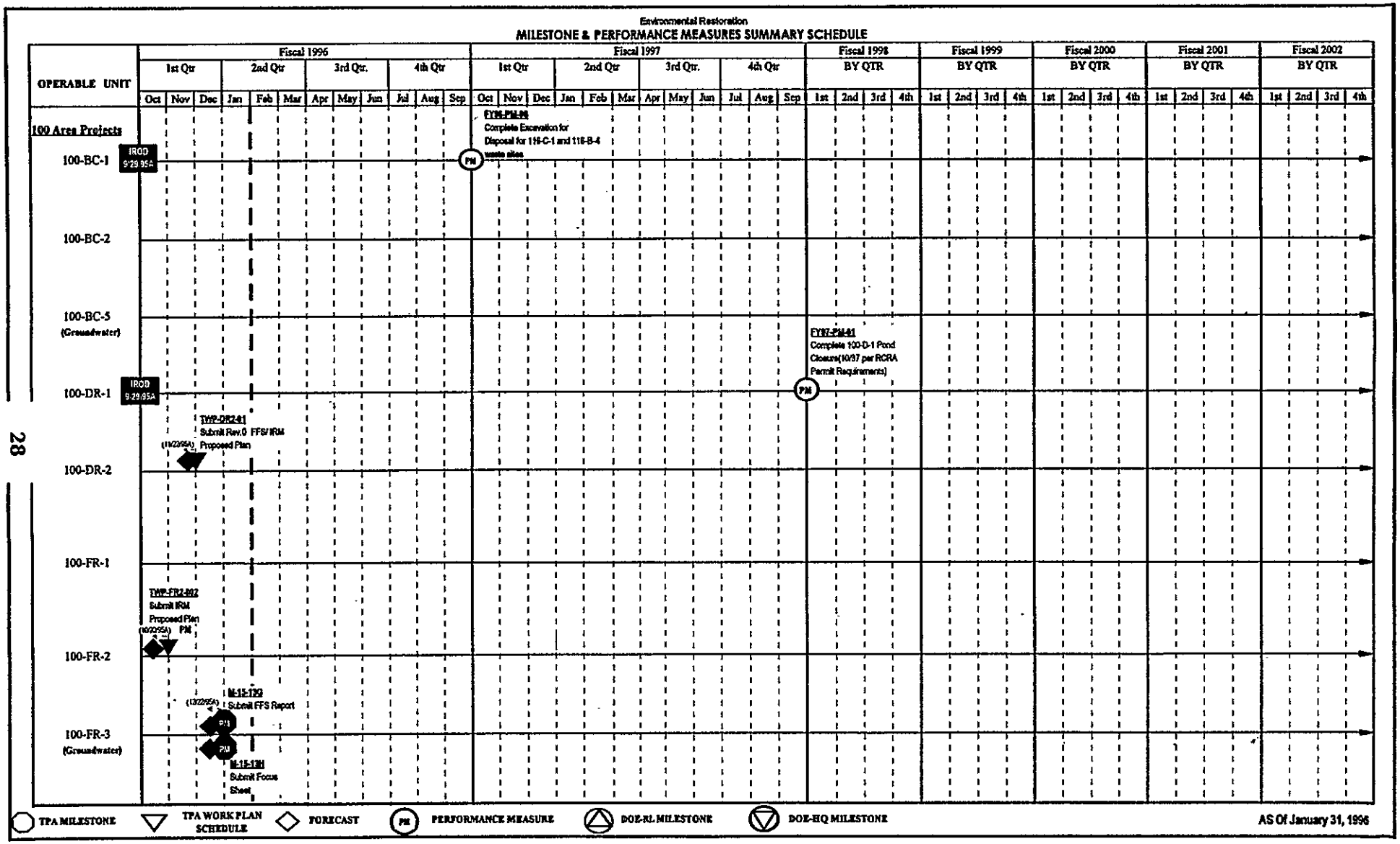
| Operable Unit / $ Variance (000's) | Description & Cause |
|---|---|
| ADS 3105<br>100-BC | ♦ Work on **BC Demonstration Project** is 2 Months ahead of schedule.<br>♦ **Rock Screening Treatability Test** is 6 months ahead of schedule. |
| ADS 3120<br>100-HR | ♦ **100-HR-3 IRM design** - High river flows and associated water levels have curtailed the progress of pore water sampling and groundwater discharge monitoring the 100-H Area. Other design activities such as conceptual and preliminary design, site evaluation and reviews and numerical modeling are timephased incorrectly<br>♦ Treatability CENCRTC- The pH adjustment system was not procured as planned<br>♦ IRM implementation - Well drilling did not start as originally planned in January due to revised strategy. |
| ADS 3125<br>100-NR | ♦ **Crib Characterization** drilling activities delayed due to "high rad" work stoppage in October and November 1995.<br>♦ **In situ treatment curtain** - scope changes and additional regulatory requirements have caused significant schedule delays. |
| ADS 3600<br>100-N Reactor | ♦ **Waste** scheduled for shipment has not been shipped.<br>♦ Winter weather and equipment repairs have caused production rate decreases. |
| ADS 3700<br>ERDF | ♦ The **ERDF** negative schedule variance is due to delays in drilling groundwater monitoring wells to evaluate lesser cost alternatives.<br>♦ Delays in liner placement activities due to weather conditions<br>♦ **Construction Quality Assurance** subcontractor efforts are behind schedule reflecting the delays in installation of the liner |
| ADS 3400<br>Program Mgmt & Support | ♦ Phase III of restructuring has not been implemented pending final determination of FY96 budget reductions. |

***Cost Variances (> $400 thousand @ ADS Level):***

| Operable Unit / $ Variance (000's) | Description & Cause |
|---|---|
| ADS 3010<br>RARA -UST | ♦ **Technical Determination** support by statistical sampling and contamination release criteria did not require 126-F-1 to be stabilized |
| ADS 3105<br>100-BC | ♦ **Rock Screening Treatability Test** effort was less than originally planned<br>♦ Cost efficiencies in **BC Demo** from bulk storage of soil and reduction of samples required in sampling strategy.<br>♦ Cost savings are partially of-set by cost overruns for **Remedial Design.** |
| ADS 3125<br>100-NR | ♦ **Crib Characterization** productivity for drilling activities substantially increased cost savings. Drilling operations are complete and the cost underrun is secured. |
| ADS 3390<br>1100-EM<br>(USACE) | ♦ Employment of a new technology for **revegetation** resulted in net savings to the project.<br>♦ **USACE Carryover** of ($1036.5k) |
| ADS 3510<br>100 Area D&D | ♦ **IFS&M** - Change to annual surveillance.<br>♦ **105-C Safe Storage** - Incorrect accrual allocation of subcontract $'s and mischarges.<br>♦ **183-C Demolition** - Developed efficient removal techniques of transite panels<br>♦ **D&D Engineering & Integration** had mischarges of 250 hrs for CERCLA integration. |
| ADS 3600<br>100-N Deactivation | ♦ **Program management's** level of effort was lower than estimated actuals.<br>♦ **Facility Compliance** performed work scope with less staff than planned.<br>♦ **Building Deactivation** performed required work scope with less staff than planned.<br>♦ **Waste Management** - overstatement of underrun of waste disposal cost in the accruals |
| ADS 3700<br>ERDF | ♦ Actual overhead rate applied to construction was lower than budgeted rate<br>♦ Labor underruns due to efficiencies in technical and administration areas |

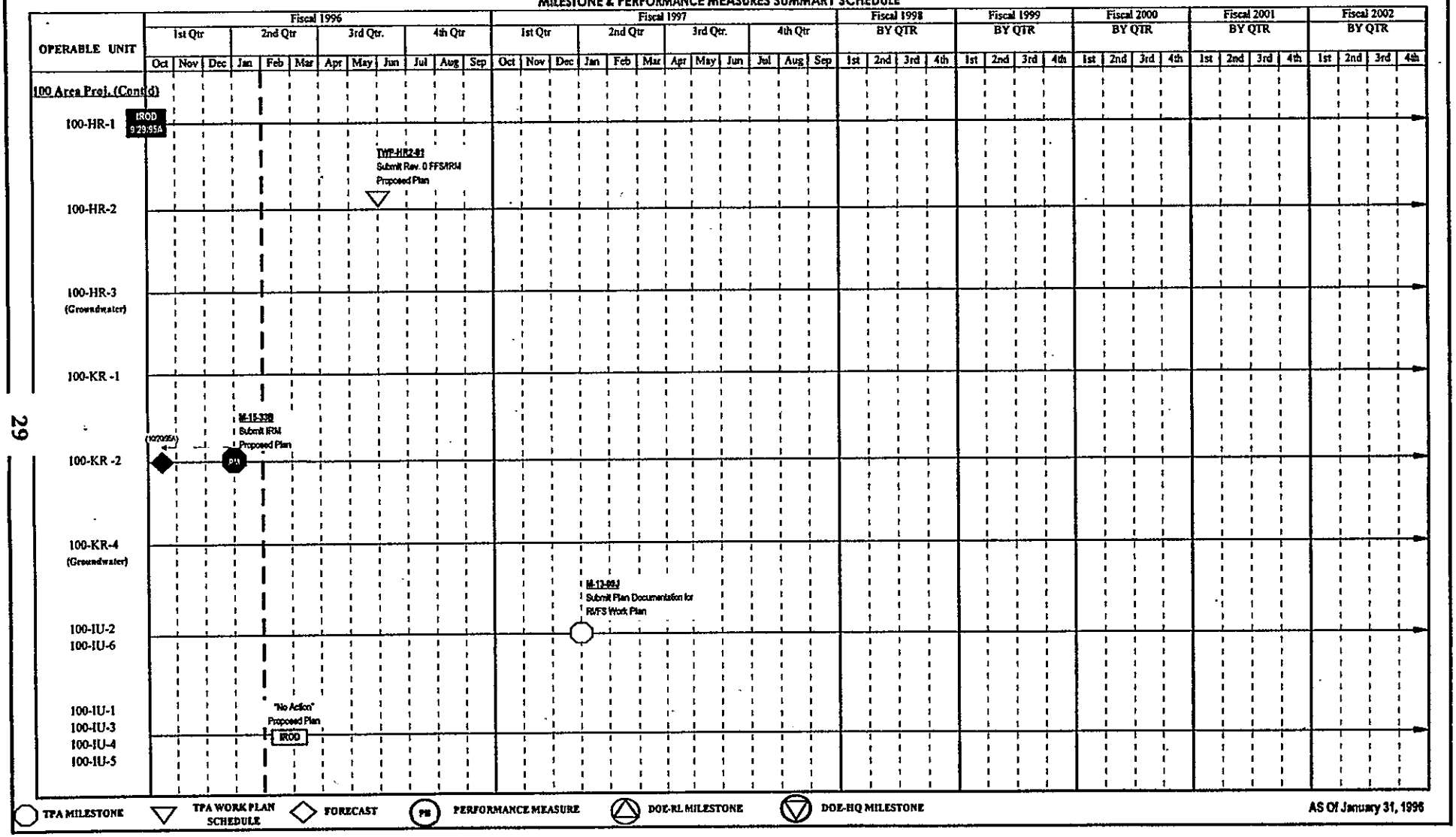
Environmental Restoration

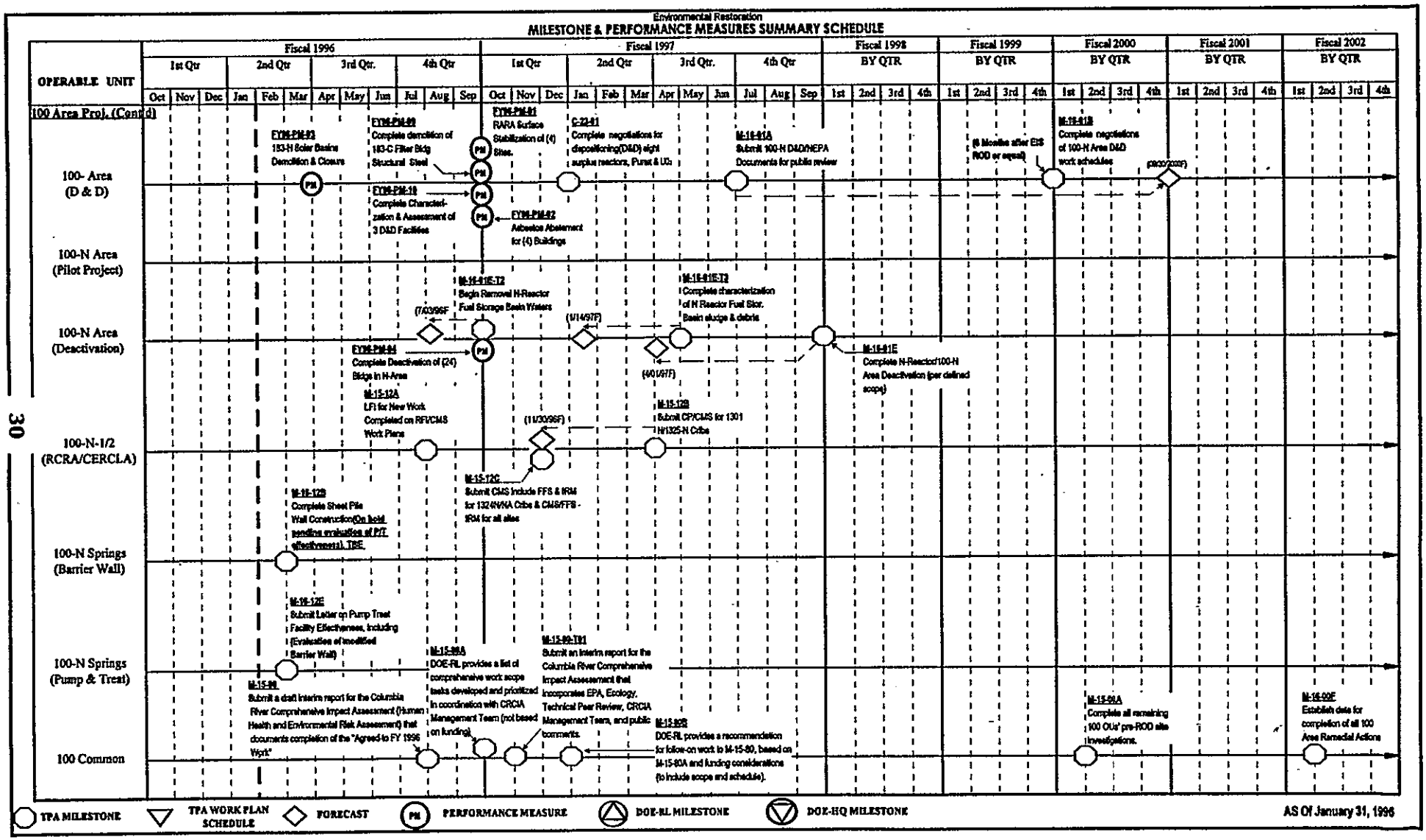
## MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE



Environmental Restoration

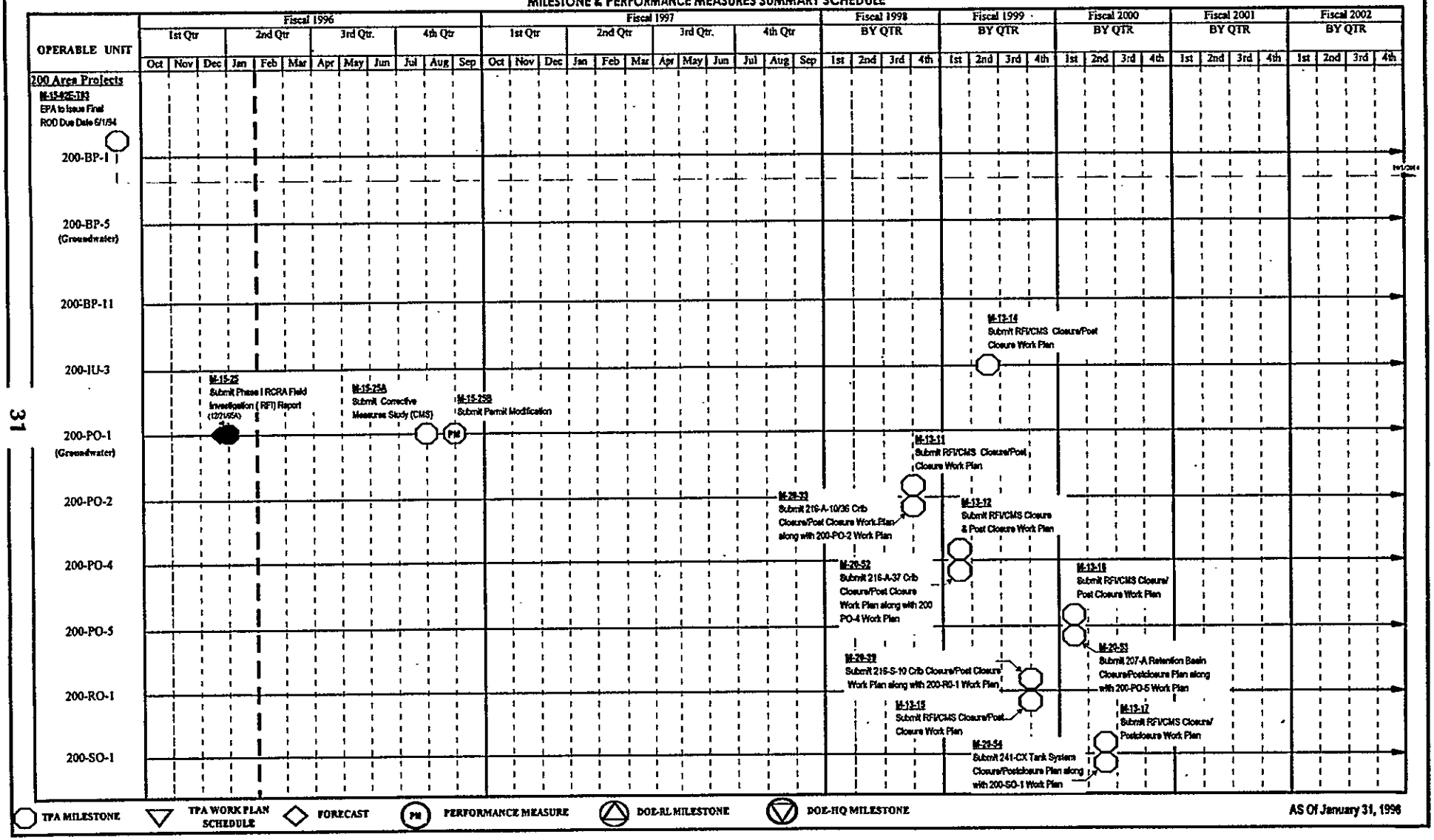
## MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE

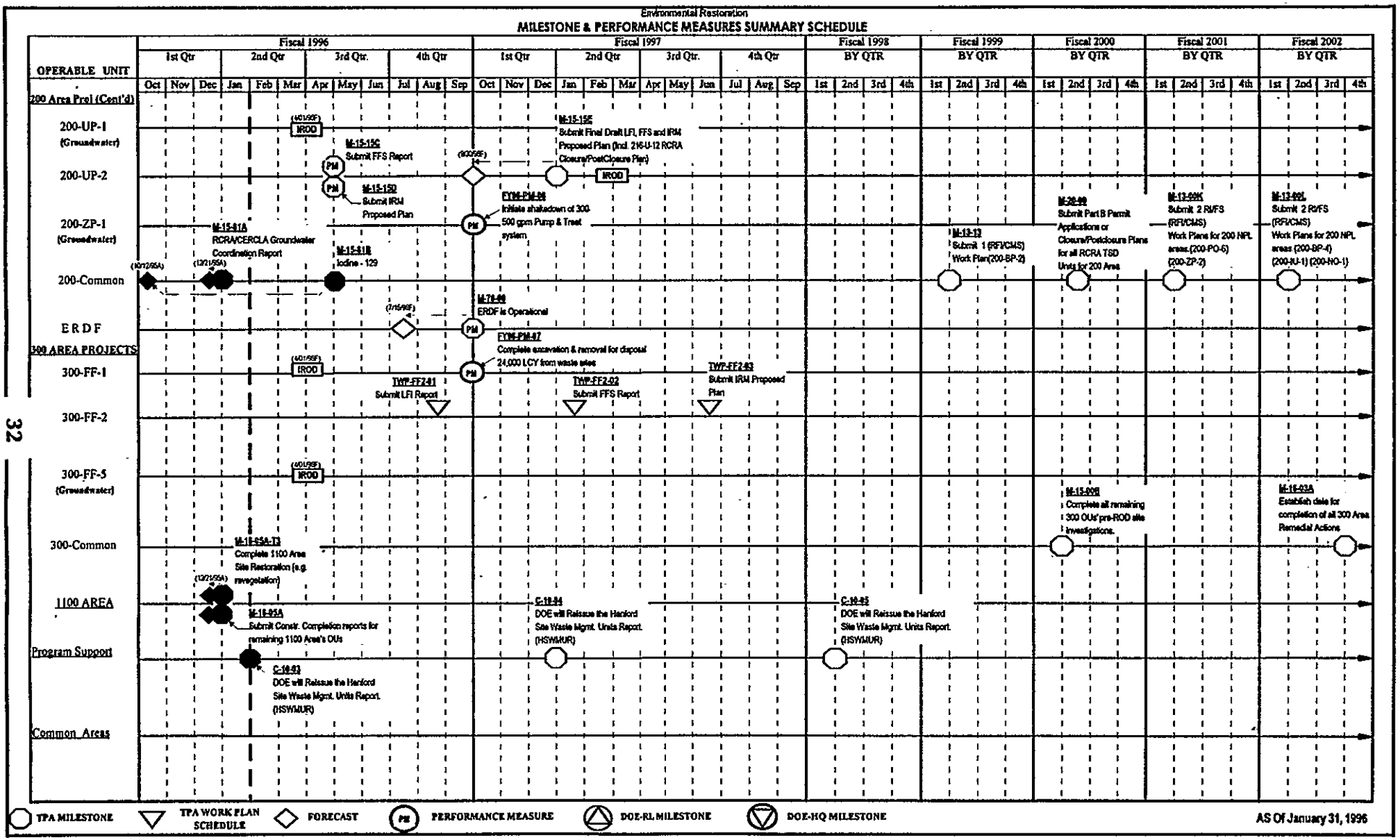



Environmental Restoration
MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE
OPERABLE UNIT
Fiscal 1996
Fiscal 1997
Fiscal 1998
Fiscal 1999
Fiscal 2000
Fiscal 2001
Fiscal 2002
1st Qtr
2nd Qtr
3rd Qtr.
4th Qtr
BY QTR
Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep
1st 2nd 3rd 4th
100 Area Proj. (Cont'd)
100- Area (D & D)
100-N Area (Pilot Project)
100-N Area (Deactivation)
100-N-1/2 (RCRA/CERCLA)
100-N Springs (Barrier Wall)
100-N Springs (Pump & Treat)
100 Common
FY96-PM-03 153-H Boiler Basins Demolition & Closure
FY96-PM-09 Complete demolition of 183-C Filter Bldg Structural Steel
FY96-PM-10 Complete Characterization & Assessment of 3 D&D Facilities
FY96-PM-01 RARA Surface Stabilization of (4) Sites.
FY96-PM-02 Asbestos Abatement for (4) Buildings
C-22-01 Complete negotiations for dispositioning(D&D) eight surplus reactors, Purex & UO3
M-16-01A Submit 100-N D&D/NEPA Documents for public review
(6 Months after EIS ROD or equal)
M-16-01B Complete negotiations of 100-N Area D&D work schedules
(7/03/96F)
M-16-01E-T2 Begin Removal N-Reactor Fuel Storage Basin Waters
(1/14/97F)
M-16-01E-T3 Complete characterization of N Reactor Fuel Stor. Basin sludge & debris
(4/01/97F)
FY96-PM-04 Complete Deactivation of (24) Bldgs in N-Area
M-16-01E Complete N-Reactor/100-N Area Deactivation (per defined scope)
M-15-12A LFI for New Work Completed on RFI/CMS Work Plans
(11/30/96F)
M-15-12B Submit CP/CMS for 1301 N/1325-N Cribs
M-15-12C Submit CMS Include FFS & IRM for 1324/NNA Cribs & CMS/FFS - IRM for all sites
M-16-12B Complete Sheet Pile Wall Construction(On hold pending evaluation of P/T effectiveness). TBE
M-16-12E Submit Letter on Pump Treat Facility Effectiveness, Including (Evaluation of modified Barrier Wall)
M-15-99 Submit a draft interim report for the Columbia River Comprehensive Impact Assessment (Human Health and Environmental Risk Assessment) that documents completion of the "Agreed-to FY 1996 Work"
M-15-99A DOE-RL provides a list of comprehensive work scope tasks developed and prioritized in coordination with CRCIA Management Team (not based on funding).
M-15-99-T01 Submit an interim report for the Columbia River Comprehensive Impact Assessment that incorporates EPA, Ecology, Technical Peer Review, CRCIA Management Team, and public comments.
M-15-99B DOE-RL provides a recommendation for follow-on work to M-15-80, based on M-15-80A and funding considerations (to include scope and schedule).
M-15-99A Complete all remaining 100 OUs' pre-ROD site investigations.
M-16-00F Establish date for completion of all 100 Area Remedial Actions
TPA MILESTONE
TPA WORK PLAN SCHEDULE
FORECAST
PM PERFORMANCE MEASURE
DOE-RL MILESTONE
DOE-HQ MILESTONE
AS Of January 31, 1996

Environmental Restoration

## MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE




Environmental Restoration
MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE
Fiscal 1996
Fiscal 1997
Fiscal 1998
Fiscal 1999
Fiscal 2000
Fiscal 2001
Fiscal 2002
1st Qtr
2nd Qtr
3rd Qtr.
4th Qtr
BY QTR
OPERABLE UNIT
Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep
200 Area Proj (Cont'd)
200-UP-1 (Groundwater)
200-UP-2
200-ZP-1 (Groundwater)
200-Common
ERDF
300 AREA PROJECTS
300-FF-1
300-FF-2
300-FF-5 (Groundwater)
300-Common
1100 AREA
Program Support
Common Areas
(4/01/95F)
IROD
M-15-15C
Submit FFS Report
PM
M-15-15D
Submit IRM Proposed Plan
(9/30/95)
M-15-15E
Submit Final Draft LFI, FFS and IRM Proposed Plan (Incl. 216-U-12 RCRA Closure/PostClosure Plan)
FY96-PM-06
Initiate shakedown of 300-500 gpm Pump & Treat system
M-15-01A
RCRA/CERCLA Groundwater Coordination Report
(10/12/95A)
(12/1/95A)
M-15-01B
Iodine - 129
(7/15/95F)
M-78-09
ERDF is Operational
FY96-PM-07
Complete excavation & removal for disposal 24,000 LCY from waste sites
TWP-FF2-01
Submit LFI Report
TWP-FF2-02
Submit FFS Report
TWP-FF2-03
Submit IRM Proposed Plan
M-15-00B
Complete all remaining 300 OUs' pre-ROD site investigations.
M-15-03A
Establish date for completion of all 300 Area Remedial Actions
M-16-05A-T3
Complete 1100 Area Site Restoration (e.g. revegetation)
M-16-05A
Submit Constr. Completion reports for remaining 1100 Area's OUs
C-16-01
DOE will Reissue the Hanford Site Waste Mgmt. Units Report. (HSWMUR)
C-16-04
DOE will Reissue the Hanford Site Waste Mgmt. Units Report. (HSWMUR)
C-16-05
DOE will Reissue the Hanford Site Waste Mgmt. Units Report. (HSWMUR)
M-13-12
Submit 1 (RFI/CMS) Work Plan(200-BP-2)
M-20-00
Submit Part B Permit Applications or Closure/Postclosure Plans for all RCRA TSD Units for 200 Area
M-13-00K
Submit 2 RI/FS (RFI/CMS) Work Plans for 200 NPL areas.(200-PO-6) (200-ZP-2)
M-13-00L
Submit 2 RI/FS (RFI/CMS) Work Plans for 200 NPL areas (200-BP-4) (200-IU-1) (200-NO-1)
TPA MILESTONE
TPA WORK PLAN SCHEDULE
FORECAST
PM
PERFORMANCE MEASURE
DOE-RL MILESTONE
DOE-HQ MILESTONE
AS Of January 31, 1996

(ATTACHMENT 2)

PUREX Transition Project

# PUREX TRANSITION PROJECT UPDATE

# M-80 TRI-PARTY AGREEMENT MILESTONE

February 27, 1996

| SITE MANAGEMENT SYSTEM | WESTINGHOUSE HANFORD COMPANY 1.3.1/7.1 TRANSITION PROJECTS | JANUARY 1996 |
|---|---|---|

## PROGRAM MANAGER'S ASSESSMENT

| WBS Program | ES&H Compliance | Customer | Technical | Schedule | Cost | Comments |
|---|---|---|---|---|---|---|
| 7.1.1 PUREX | ■ | ■ | ■ | ■ + ↑ | ■ ↑ | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |

■ Outstanding □ Good ◊ Satisfactory ○ Marginal ● Unsatisfactory + Improved from Last Month - Worsened from Last Month ↑ Improved Future Outlook ↓ Worsened Future Outlook

# STATUS OF HAZARD REDUCTION

- Decontamination of and equipment removal from N Cell gloveboxes continues based on latest NDA data. Another glovebox work crew is being established to work PR room gloveboxes.

- Completed four of six shipments of contaminated organic to Tennessee

- Completed shipping 187,000 gallons (50 shipments) of contaminated nitric acid to BNFL in England

- Shipped 3.1 metric tons of aluminum clad and zircaloy clad fuel to 105-KW Basins for storage

- Completed flushing 15 of 18 PUREX systems to non-hazardous conditions

# FUTURE M-80 TPA MILESTONES

| NUMBER | MILESTONE TITLE/ DESCRIPTION | MILESTONE DATE | ECD |
|---|---|---|---|
| M-80-02-T02 | Submit PUREX Surveillance & Maintenance Plan | May 1996 | May 1996 |
| M-80-02 | Submit the end point criteria and Surveillance & Maintenance Plan in support of the PUREX preclosure work plan | July 1996 | July 1996 |
| M-80-00-T06 | Complete deactivation of the PUREX Plant 211-A Area | April 1997 | May 1996 |
| M-80-04 | Complete deactivation of the PUREX Plant U Cell/ Fractionator | April 1997 | Sept. 1996 |

# FUTURE M-80 TPA MILESTONES

| NUMBER | MILESTONE TITLE/ DESCRIPTION | MILESTONE DATE | ECD |
|---|---|---|---|
| M-80-00-T07 | Complete deactivation of the PUREX Plant sample gallery | June 1997 | Dec. 1996 |
| M-80-05 | Complete deactivation of the PUREX Plant aqueous makeup area | June 1997 | Nov. 1996 |
| M-80-06 | Complete deactivation of the PUREX Plant canyon | June 1997 | Aug. 1996 |
| M-80-07 | Complete deactivation of the PUREX Plant 203-A Area | April 1998 | Nov. 1996 |
| M-80-00 | Complete PUREX and UO3 Plant's transition phase and initiate the surveillance & maintenance phase | July 1998 | Jan. 1998 |

# M-80 TPA MILESTONES COMPLETED

| NUMBER | MILESTONE TITLE/ DESCRIPTION | MILESTONE DATE | ACD |
|---|---|---|---|
| M-80-00-T01 | Issue DOE approved end point criteria for the UO3 Plant | Dec. 1994 | Dec. 1994 |
| M-80-01 | Complete deactivation of PUREX Plant R Cell | April 1995 | April 1995 |
| M-80-00-T02 | Complete all UO3 Plant transition activities and initiate Surveillance & Maintenance phase | June 1995 | Jan. 1995 |
| M-80-00-T03 | Submit options and recommendations for final management of Tank 40 organic material to EPA and/or Ecology | June 1995 | June 1995 |

# M-80 TPA MILESTONES COMPLETED

| NUMBER | MILESTONE TITLE/ DESCRIPTION | MILESTONE DATE | ACD |
|---|---|---|---|
| M-80-02-T01 | Submit proposed end point criteria for transition of PUREX | June 1995 | June 1995 |
| M-80-00-T04 | Complete removal of concentrated (recovered) 203-A nitric acid at PUREX | June 1996 | Dec. 1995 |
| M-80-00-T05 | Complete implementation of selected alternative for management of spent fuel from PUREX | Dec. 1996 | Dec. 1995 |
| M-80-03 | Remove process waste solutions from Tanks D5 and E6 | Jan. 1997 | April 1995 |

# FUTURE M-20 TPA MILESTONE

| NUMBER | MILESTONE TITLE/ DESCRIPTION | MILESTONE DATE | ECD |
|---|---|---|---|
| M-20-24A | Submit a PUREX preclosure work plan to EPA and Ecology | July 1996 | July 1996 |

| SITE MANAGEMENT SYSTEM | WESTINGHOUSE HANFORD COMPANY<br>1.3.1/7.1 TRANSITION PROJECTS | JANUARY<br>1996 |
|---|---|---|

# EXPENSE COST PERFORMANCE

($ DOLLARS IN THOUSANDS)

| PROGRAM ELEMENT WBS & ADS | FISCAL YEAR TO DATE | | | | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | BUDGETED COST | | ACTUAL COST | VARIANCE | | | | | | | |
| | WORK SCHED | WORK PERF | WORK PERF | SCHED | COST | BAC | EAC | FYSF | EXPECTED FUNDS FY 1996 | PROJECTED CARRYOVER WORKSCOPE | |
| 1KP1 PUREX S & M 7.1.1.1 (6622-0) | 7,182 | 7,155 | 6,379 | (27) | 776 | 25,180 | 22,972 | 22,972 | 24,572 | | |
| 1KP3 - Funds Management | | | | 0 | 0 | | | | | | |
| 1KP4 - Transition 7.1.1.4 (6622-0) | 4,969 | 5,193 | 4,411 | 224 | 782 | 16,827 | 16,827 | 16,827 | 16,827 | | |
| 1KP5 - Compliance 7.1.1.5 (6622-0) | 629 | 629 | 375 | 0 | 254 | 1,781 | 1,581 | 1,581 | 1,781 | | |
| TOTAL | 12,780 | 12,977 | 11,165 | 197 | 1,812 | 43,788 | 41,380 | 41,380 | 43,180 | | |

EAC is defined as the estimate of what it is going to cost to complete the work as defined by the FYWP and Class I changes.
FYSF is defined as the estimated total that will be spent from October through September.
Expected Funds is defined as total funding guidance expected at fiscal year end (includes anticipated approval of change requests, carryover, reprogramming actions and reserve holdback).

# PROJECT TO DATE REPORTING

- Project on schedule and under budget while achieving a satisafctory safety record (CY 94 lost workday rate = .33 / CY95 rate = 1.0)
- Original baseline 222.5M EAC 159.9
- Current baseline:

| FY94 | FY95 | FY96 | FY97 | FY98 |
|---|---|---|---|---|
| 47.9M | 48.0M | 43.8M | 30.0M | 0.6M |

Actuals: 42.7 42.8

| | Percent FY 1996 | Percent Project to Date |
|---|---|---|
| Work Scheduled | 29.2% | 63.2% |
| Work Completed | 29.6% | 64.1% |
| Actual Cost | 25.5% | 57.7% |

Project Completion Date - September 12, 1997

(ATTACHMENT 3)

# Tri-Party Agreement

# Milestone Management Review

# Advanced Reactors Transition

O. A. Farabee

R. A. Almquist

| SITE MANAGEMENT SYSTEM | WESTINGHOUSE HANFORD COMPANY<br>7.3 ADVANCED REACTORS TRANSITION | January 1996 |
|---|---|---|

# PROGRAM MANAGER'S ASSESSMENT

| WBS | PROGRAM ELEMENT | ES&H COMPLIANCE | CUSTOMER | TECHNICAL | SCHEDULE | COST | COMMENTS |
|---|---|---|---|---|---|---|---|
| 7.3 | **ADVANCED REACTORS TRANSITION** | ■ | ■ | ■ | ■ | ■ | |

## LEGEND

**RATING GRADIENT SYMBOLS**

- ■ Outstanding
- □ Good
- ◇ Satisfactory
- ○ Marginal
- ● Unsatisfactory

**INDICATORS**

- \+ Improved from last month
- − Worsened from last month
- ↑ Improved future outlook
- ↓ Worsened future outlook

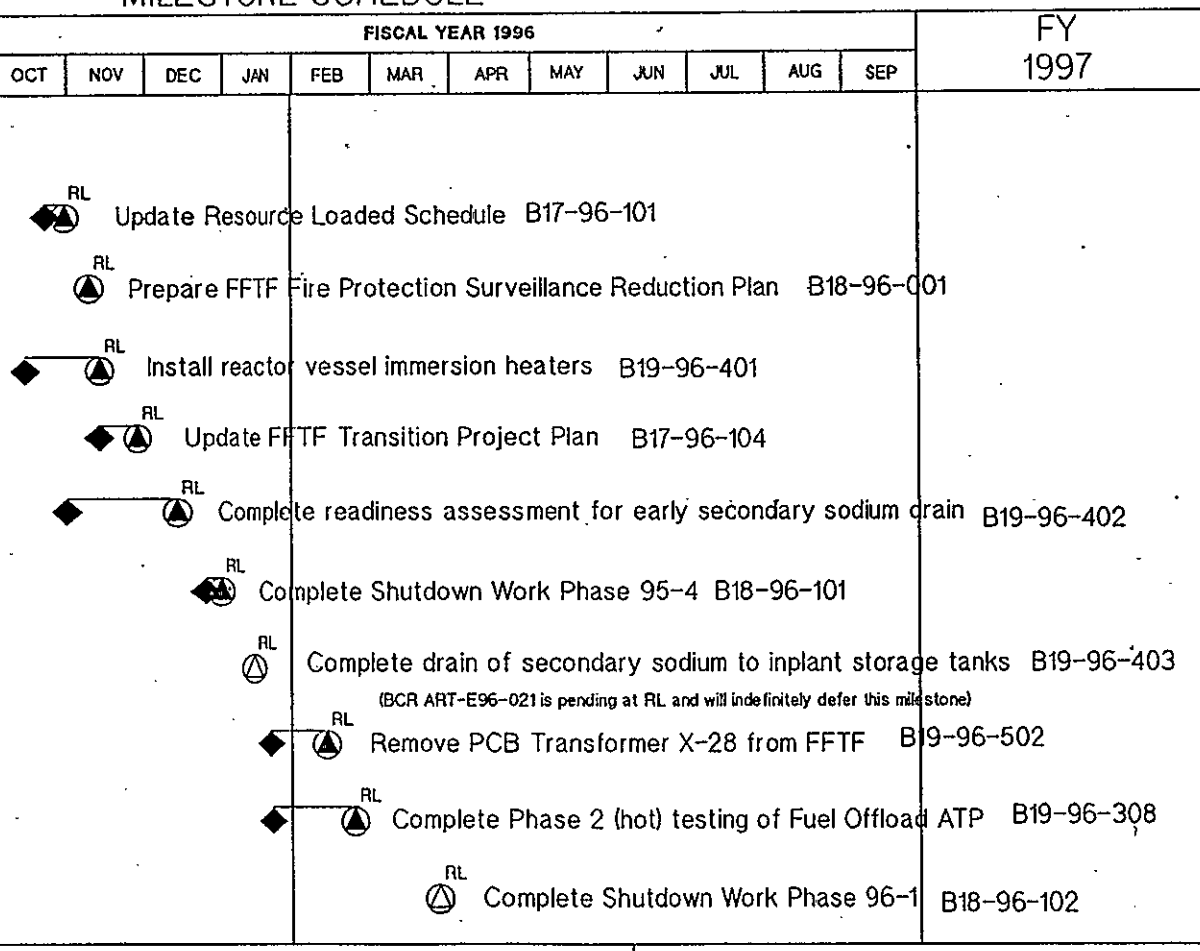
# PROGRAM MANAGER'S ASSESSMENT

| | |
|---|---|
| ES&H | ES&H compliance was rated outstanding. During this three month period, there was one significant reportable occurrence, no preventable lost workdays, no ES&H audit findings with a PPG value greater than eleven, and no facility representative surveillance findings/concerns. During this period, the FFTF Transition Project continued to show initiative for continuous safety emphasis/awareness. |
| Customer | Customer relations continued outstanding as demonstrated by excellent teamwork and responsiveness to RL requirements. Daily, weekly and monthly formal and informal interface meetings continued with outstanding results. |
| Technical | Significant technical accomplishments were recorded during this period. These included early initiation of secondary sodium drain (this activity was placed on hold November 7, 1995, pending tritium production), installation of recycled CRBR tanks in the Sodium Storage Facility, completion of the Fuel Off-Load Acceptance Test Procedure, and placement of the first interim storage cask containing seven washed and dried fuel assemblies in the 400 Area Interim Storage Area. |
| Schedule | The schedule status was rated outstanding and reflects completion of all milestones for the period on or ahead of schedule. Progress continues on fuel offload and system shutdown activities. |
| Cost | The cost status was rated outstanding with a favorable variance of $702K. This is primarily due to underruns in surveillance and maintenance. |

| SITE MANAGEMENT SYSTEM | WESTINGHOUSE HANFORD COMPANY<br>7.3 ADVANCED REACTORS TRANSITION | January 1996 |
|---|---|---|

## MILESTONE SCHEDULE

| WBS | Baseline Date | FISCAL YEAR 1996 | FY 1997 |
|---|---|---|---|




MILESTONE TYPES: RL Major-RL ▽ DOE-HQ

Footnote:

Filename: C:\GALLERY\FY96A.GAL

| SITE MANAGEMENT SYSTEM | WESTINGHOUSE HANFORD COMPANY<br>7.3 ADVANCED REACTORS TRANSITION | January 1996 |
|---|---|---|

## MILESTONE SCHEDULE

| W B S | Baseline Date | FISCAL YEAR 1996 | | | | | | | | | | | | FY 1997 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| ADS 6640<br>FFTF | | | | | | B19-96-501 RL Complete Shutdown of Group 2 and 3 Systems<br>B17-96-102 RL Prepare FY 1998 ADS Draft<br>B19-96-404 RL Finalize concept for draining reactor inlet plenum<br>B19-96-309 RL Place procurement contract for remaining ISC's<br>B18-96-103 RL Complete Shutdown Work Phase 96-2<br>B19-96-201 RL Administrative Assessment of S/RID<br>Disposition Cat 1C, 11C, & 111D fueled components & remove PA ▽ B19-96-310<br>Remove PCB transformers X-9 and X-10 RL B19-96-503<br>Prepare FY 1997 MYPP Draft RL B17-96-103<br>Complete Shutdown Work Phase 96-3 RL B18-96-104 | | | | | | |

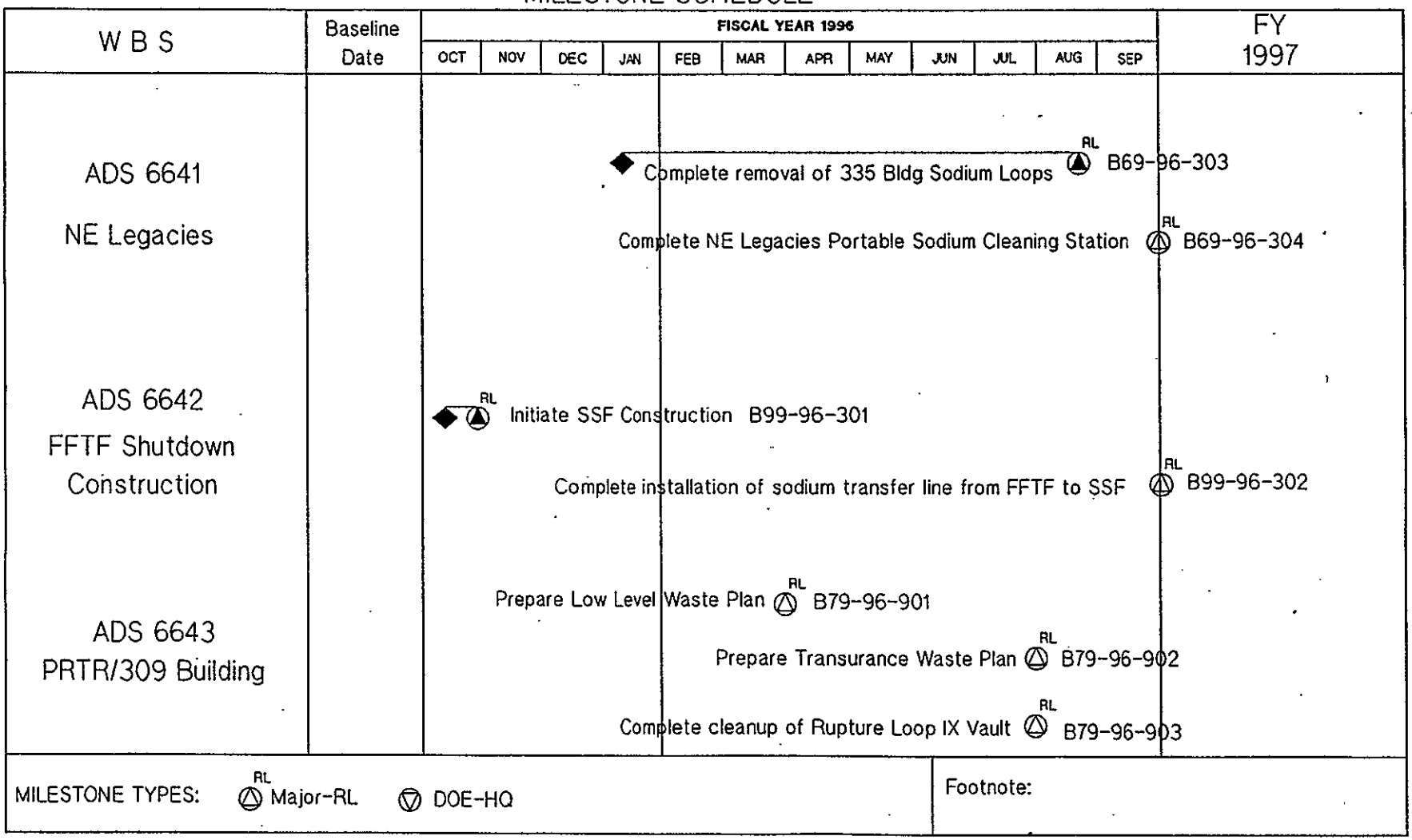
MILESTONE TYPES: RL △ Major-RL ▽ DOE-HQ

Footnote:

Filename: C:\GALLERY\FY96B.GAL

| SITE MANAGEMENT SYSTEM | WESTINGHOUSE HANFORD COMPANY<br>7.3 ADVANCED REACTORS TRANSITION | January 1996 |
|---|---|---|

## MILESTONE SCHEDULE




Filename: C:\GALLERY\FY96C.

## Advanced Reactors Transition Program Accomplishments
## November 1995 - January 1996

- Readiness assessment for secondary sodium drain was complete November 2. Milestone due date was December 19.

- Test loop piping was removed from the 335 Building January 8. Milestone due date was July 22.

- Agreement was reached between the State of Washington Department of Ecology and the U. S. Department of Energy on December 29: Buildings 308 and 309 are not "key facilities". Consequently, decommissioning these buildings does not fall under the auspices of the Tri-Party Agreement.

- Phase 2 (hot) testing of the Fuel Offload Acceptance Test Procedure was complete January 26. Milestone due date was February 27.

| SITE MANAGEMENT SYSTEM | WESTINGHOUSE HANFORD COMPANY<br>7.3.1 ADVANCED REACTORS TRANSITION | JANUARY 1996 |
|---|---|---|

# EXPENSE COST PERFORMANCE

($ In Thousand)

| WBS (ADS) | FY TO DATE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | BUDGETED COST | | ACTUAL COST | VARIANCE | | BAC | EAC | FYSF | EXPECTED FUNDS FY 1996 | PROJECTED CARRY-OVER WORK-SCOPE |
| | WORK SCHED | WORK PERF | WORK PERF | SCHED | COST | | | | | |
| 7.3.1.1 / 6640 FFTF | 12626 | 12696 | 11959 | 70 | 737 | 42150 | 42150 | 42150 | 50324 | 0 |
| 7.3.1.3 / 6641 NUCLEAR ENERGY LEGACIES | 1513 | 1676 | 1612 | 163 | 64 | 3543 | 3543 | 3543 | 4296 | 0 |
| 7.3.1.2 / 6642 FFTF SHUTDOWN CONSTRUCTION | 1530 | 1557 | 1796 | 27 | (239) | 4929 | 4929 | 4929 | 8752 | 0 |
| 7.3.1.4 / 6643 PRTR/309 BUILDING | 421 | 421 | 281 | 0 | 140 | 1745 | 1745 | 1745 | 1745 | 0 |
| 7.3.1 | 16,090 | 16,350 | 15,648 | 260 | 702 | 52,367 | 52,367 | 52,367 | 65,117 | 0 |

EAC is defined as the estimated total cost to complete the workscope as defined by the FYWP and approved Class I changes.

FYSF is defined as the estimated total that will be spent from October through September.

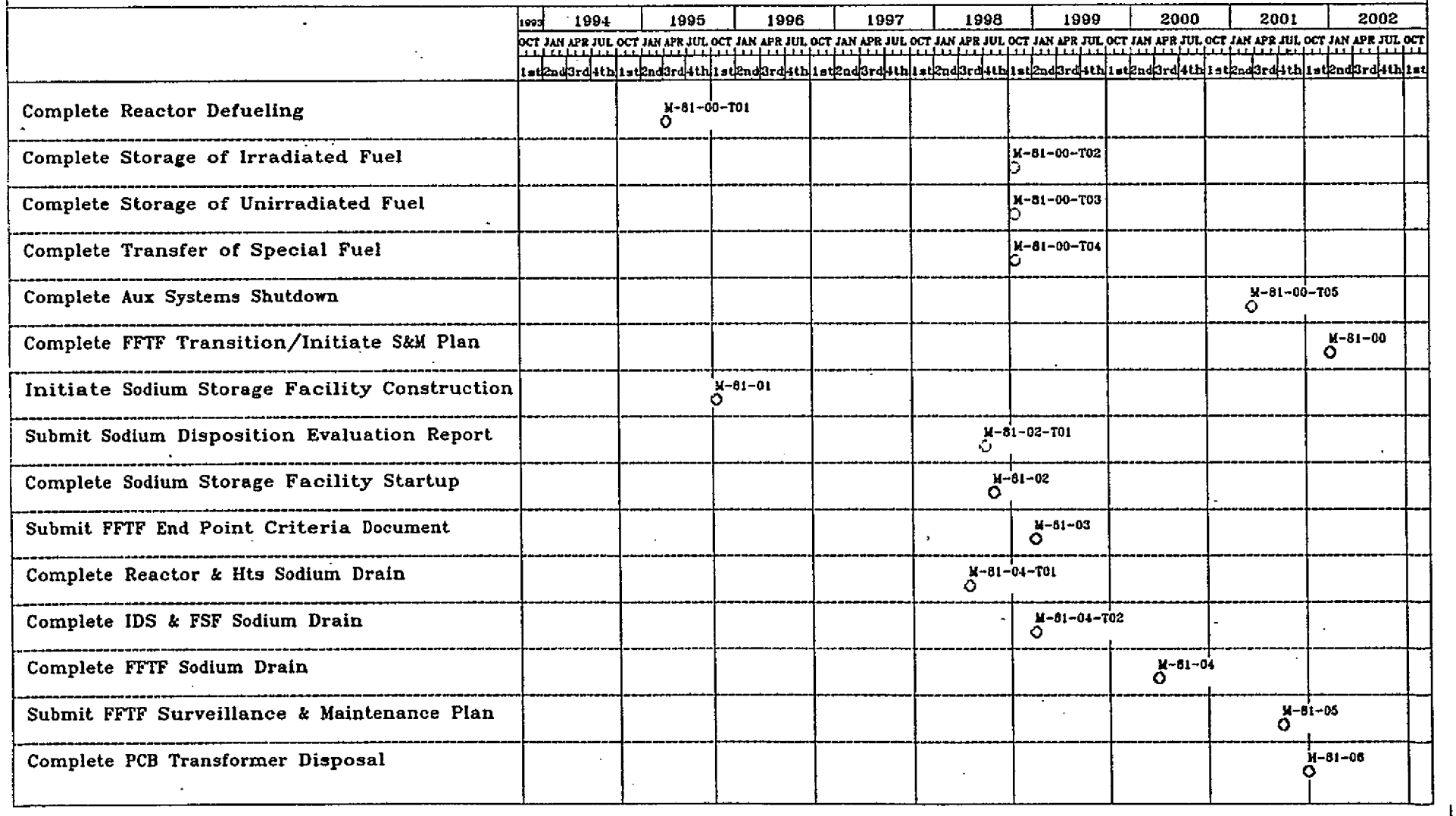
Expected Funds is defined as total funding guidance expected at fiscal year end (includes anticipated approval of change requests, carryover, reprogramming actions and reserve holdbacks).

# ISSUES

| WBS NO. | DATE IDENT | ISSUE | IMPACT | STATUS |
|---|---|---|---|---|
| 7.3-1 | 10/95 | The U. S. District Court for Idaho issued the Idaho Consent Order dated October 17, 1995. This order established a new time table for transfer of spent nuclear fuel into the State of Idaho. No spent fuel from FFTF can be transferred to Idaho until after 12/31/2000 without special agreement from the State of Idaho. | The FFTF cost and schedule will be adversely impacted if the sodium bonded metal fuel cannot be transferred to Idaho as currently planned in the summer of 1997. | WHC is assessing options for material disposition and will develop a recommended path forward. This will be issued to DOE-RL by 2/29/96. TPA milestone will need review and possible renegotiation. |
| 7.3-2 | 11/95 | Mr. Tom Tebb, of the State of Washington Department of Ecology (Ecology), requested that DOE provide Ecology with the basis for managing the NE Legacy sodium inventories as product material prior to final disposition. | If some or all of the sodium inventories were determined to be waste, the material could be subject to regulation under RCRA. This would result in higher costs for storage and disposal of the material. | WHC completed a regulatory analysis reaffirming the product status of the NE Legacy sodium inventories. DOE-RL provided a letter to Ecology on November 15, 1995, with this regulatory basis. DOE-RL has requested Ecology's determination regarding this analysis and conclusion. |

# TPA MILESTONE SCHEDULE
## FAST FLUX TEST FACILITY

As Of: February 22, 1996 (Black M.S. = Complete)
Barchart Name: TPA_Mstr_Barchrt



(ATTACHMENT 4A)



# Plutonium Finishing Plant

## *TPA Overview*

## *PFP Stabilization, Milestone M-83-00*

**D. W. Templeton**

**February 27, 1996**

# Milestone Status

- M-83-00 Complete stabilization of process areas and other PFP cleanout actions resulting from the EIS ROD, within PFP. Date TBD*

  Completion of the process area stabilization activities will establish a safe and environmentally secure configuration for these plant areas. The major radioactive and chemical sources associated with these areas will be removed, reduced and/or stabilized. Completion of stabilization and other cleanout activities will result in reduced risk to plant workers, the public and the environment. This milestone includes completion of the National Environmental Policy Act (NEPA process.

  * The three parties will enter into negotiations within two months following issuance of the EIS Record of Decision to establish milestones for implementing the Record of Decision and will complete negotiations within 6 months thereafter.

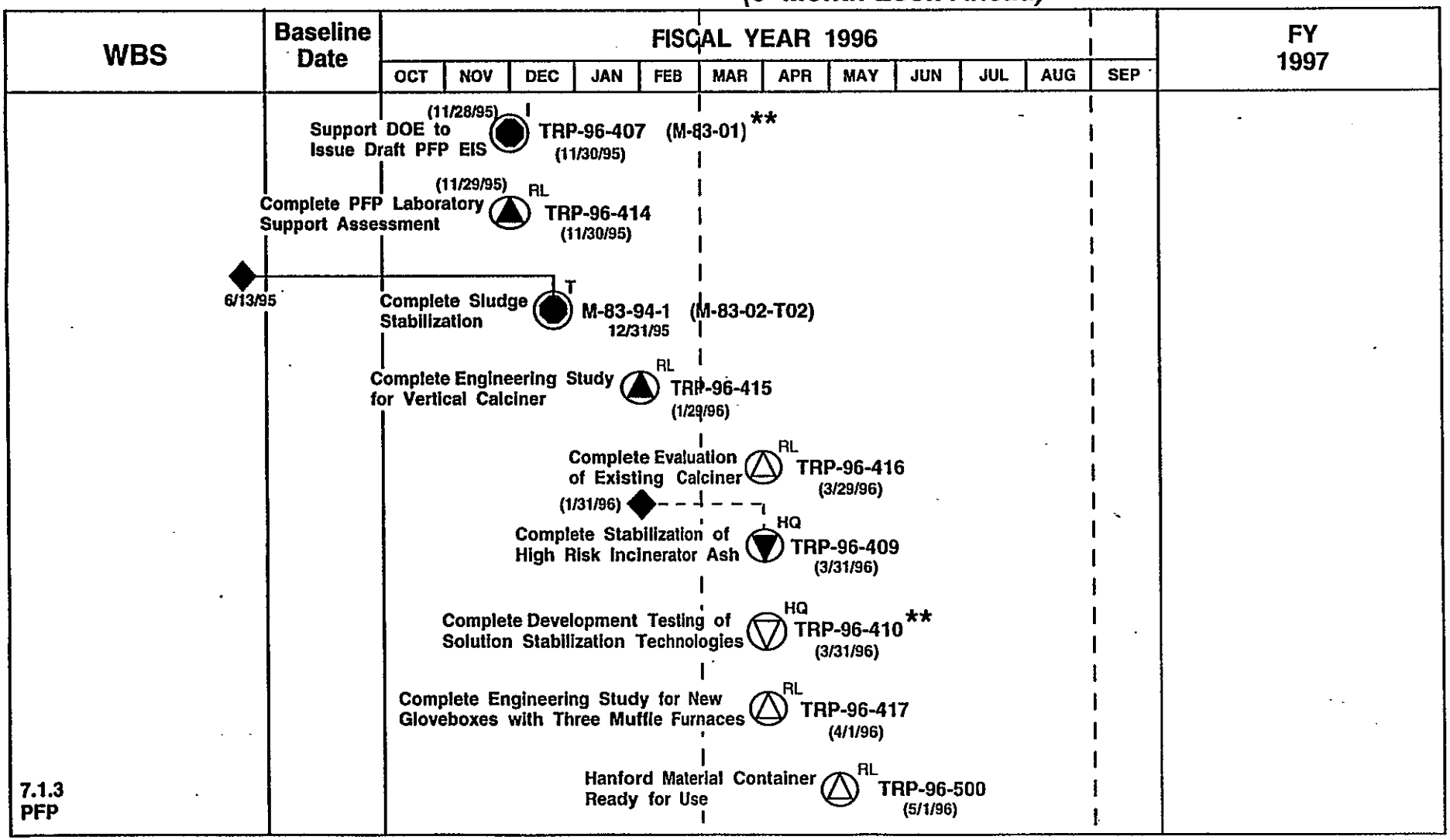
# PFP Status
# January 1996

| | | |
|---|---|---|
| ESH | Good | Based on safety statistics in 5 categories |
| Customer | Satisfactory | Discretion of PFP Program Manager |
| Technical | Satisfactory | • Work performed<br>• Documentation<br>• Resolving Issues |
| Schedule | Marginal | • Based on overall schedule performance<br>• Delays from curtailment major factor |
| Cost | Marginal | Rate against schedule overrunning costs versus scheduled work |

| Site Management System | Westinghouse Hanford Company<br>1.3.1/7.1 - TRANSITION PROJECTS | February 1996 |
|---|---|---|

# MILESTONE SCHEDULE

*(6 Month Look-Ahead)*



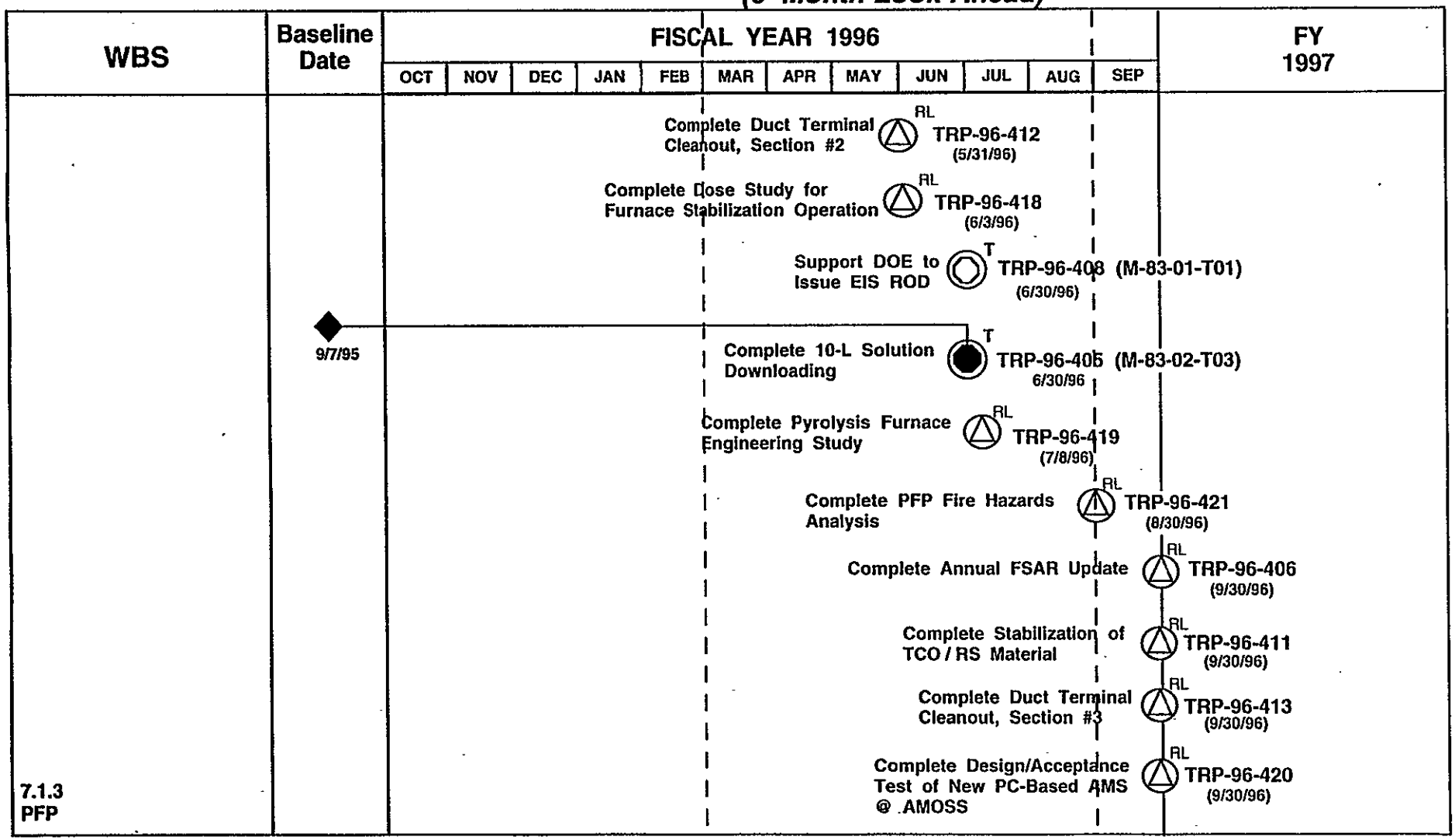

**MILESTONE TYPES:** T TPA TARGET; I TPA INTERIM; HQ DOE-HQ; FO DOE-FO; RL DOE-RL; ◇ FORECAST

**FOOTNOTES:**

| Site Management System | Westinghouse Hanford Company<br>1.3.1/7.1 - TRANSITION PROJECTS | February 1996 |
|---|---|---|

# MILESTONE SCHEDULE

*(6 Month Look-Ahead)*




**MILESTONE TYPES:**

- T — TPA TARGET
- I — TPA INTERIM
- HQ — DOE-HQ
- FO — DOE-FO
- RL — DOE-RL
- FORECAST

**FOOTNOTES:**

# Milestone Status

- M-83-01 — Submit draft Environmental Impact Statement — November 1995

  The draft Environmental Impact Statement will be submitted for public review.

  ***Status:*** ***Completed - November 28, 1995***

- M-83-01-T01 — Issue final Environmental Impact Statement Record of Decision (ROD) — June 1996

  The final Environmental Impact Statement will be completed and all applicable NEPA requirements performed, including issuance of the ROD.

  ***Status:*** ***On Schedule***

# Milestone Status

**(No change since 11/15/95 update)**

| | | |
|---|---|---|
| • M-83-02 | Complete identified Interim Actions<br>The currently identified interim actions as listed in the following target activities will be completed. Additional potential interim actions will be evaluated. | December 1998 |
| ***Status:*** | ***On Schedule*** | |
| • M-83-02-T01 | Submit Plan and Schedule for Additional Interim Actions | September 1995 |
| ***Status:*** | ***Completed - September 29, 1995*** | |
| • M-83-02-T02 | Complete Sludge Stabilization | December 1995 |
| ***Status:*** | ***Completed - June 14, 1995*** | |
| • M-83-02-T03 | Complete 10-L Solution Downloading | June 1996 |
| ***Status:*** | ***Completed - September 19, 1995*** | |
| • M-83-02-T04 | Complete 234-5Z Ductwork Cleanout | December 1998 |
| ***Status:*** | ***Early start planned*** | |

# PFP TPA Overview

## Budget / Cost Status

- Project Schedule & Cost Performance are marginal due to impacts from the Radiological Work Curtailment. The January 1996 Schedule and Cost Variances are <$2,565K> and <$501K>, respectively. Budget Variance is a FAVORABLE $2,064K

FTYD January

- Budget - $25,266
- Actuals - $23,202

# PFP TPA Overview

**Program Accomplishments**

- Completed Engineering Study for Vertical Calciner on January 29, 1996, as scheduled
- Significantly improved housekeeping throughout the PFP Complex. A new housekeeping standard has been established and implemented
- Completed preparation of 50 FL-10-1 containers for Rocky Flats in support of their number one 94-1 issue
- The modified Environmental Assessment (EA) was approved by DOE-RL on November 21, 1995, to support Thermal Stabilization expansion
- All corrective actions from the Radiological Curtailment were completed on December 8, 1995
- The Notice of Construction for Ductwork Remediation (Terminal Cleanout activities) was approved by the Department of Health on November 7, 1995 and the U.S. Environmental Protection Agency on November 26, 1995

# PFP TPA Overview

## Issues and Opportunities

- The PFP Transition Project is now developing **"Breakthrough Thinking"**
  - Reduces risk to workers
  - Reduce mortgage costs on the facility
  - Free resources to accelerate Terminal Cleanout (TCO) and facility deactivation
- **Breakthrough Thinking** uses two key elements:
  - 1. Optimizing SNM stabilization
    - Expedite discard of low plutonium (Pu) content residues
    - Repackage in lieu of restabilizaton / repackaging to avoid unnecessary exposure, time and risk
  - 2. Accelerating TCO and facility deactivation

# PFP TPA Overview

**Issues and Opportunities** (Continued)

- Issues requiring resolution to support **Breakthrough Thinking**
  - Ecology et al support immediate resolution of RCRA issues (i.e., negotiate new TPA milestones, etc.); ( RL letter)
  - Determining disposal path for low Pu content residues at RL or Complex level (container, transportation, etc.)
  - DOE-HQ concurrence that DOE-STD-3013-94 is flexible enough to allow repackaging breakthrough
  - DOE-HQ policy decisions, such as Material Disposition EIS Record of Decision, are not inconsistent with breakthrough thinking

(ATTACHMENT 4B)

**Department of Energy**
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

FEB 27 1996

96-PFP-006

Mr. Michael A. Wilson, Program Manager
Nuclear Waste Program
State of Washington
Department of Ecology
1315 West 4th Avenue
Kennewick, Washington 99336

Dear Mr. Wilson:

APPLICABILITY OF THE STATE OF WASHINGTON DANGEROUS WASTE REGULATIONS TO REMOVAL OF SCRAP MATERIALS CONTAINING SPECIAL NUCLEAR MATERIALS (SNM) FROM THE PLUTONIUM FINISHING PLANT (PFP)

RL is requesting agreement regarding the applicability of Dangerous Waste regulations to removal of materials which contain SNM from PFP.

Consistant with time schedules that will be developed under Milestone M-83-00, RL is requesting Ecology agreement that materials containing SNM currently stored in PFP will not have to be designated under WAC 173-303 until the material is in a state that allows for its transfer to a permitted storage location.

It is the position of RL that materials currently stored at the PFP are not waste and, therefore, not subject to management under WAC 173-303 or the Resource Conservation and Recovery Act (RCRA). As described in the enclosed White Paper and the summary below, these materials are managed under the Atomic Energy Act of 1954 (AEA), and equivalent protection of human health and the environment are provided by applicable DOE directives.

DOE is required by the AEA and DOE Order 5633.3B, "Control and Accountability of Nuclear Materials, September 7, 1994," to rigorously account for all SNM in the PFP. To comply with this requirement, strict material accountability and tracking systems (safeguards) are used to prevent unauthorized diversion of materials. Periodic inspections and surveillance ensure both safety and safeguards requirements remain in place. The DOE Order includes clear definition of conditions which allow SNM protection requirements to be terminated. The proposed management strategy is to define "point of generation" for solid wastes to be the point at which SNM safeguards are terminated for an item. The storage, handling, and stabilization of the safeguarded materials would be exempt from RCRA/WAC regulation until an item is placed in a waste storage or handling area and removed from the SNM accountability inventory. At this point in time it would be designated and managed in accordance with WAC-173-303 to the extent that it is a mixed waste.

The DOE requests that Ecology review the enclosed White Paper and indicate in writing, by March 29, 1996, with a follow-up Agreement in Principle by April 29, 1996, that this will form a reasonable basis for continuing facility transition negotiations under milestone M-83-00. As indicated in the current M-83-00 milestone, the parties are scheduled to negotiate additional milestones following issuance of the Record of Decision for the PFP Stabilization Environmental Impact Statement, DOE/EIS-0244, scheduled for June 1996. The DOE requests that we proactively begin negotiations now, recognizing that final agreement will be contingent upon completion of the NEPA process. Concurrence on these issues will provide a positive regulatory resolution path forward in order to allow continued management and timely discard of the designated material to a permitted storage facility.

If you have questions regarding this matter, please contact Mr. David W. Templeton, Plutonium Finishing Plant Program Manager, on (509) 373-2966.

Sincerely,

James E. Mecca, Director
Transition Program Division

TPD:DWT

Enclosure

cc w/encl:
F. Ma, Ecology
E. C. Vogt, WHC
D. J. McBride, WHC

White Paper-- Management Strategy for Plutonium Disposition

Background:

Special nuclear materials (SNM) are controlled by the Department of Energy in accordance with DOE Orders issued under the authority of the Atomic Energy Act of 1954. Solid wastes are regulated under the Resource Conservation and Recovery Act (RCRA), which is implemented in the State of Washington through Washington Administrative Code (WAC) 173-303. SNM and byproduct materials are exempt from management under RCRA. However, in solid wastes which contain both a radioactive component and a hazardous component ("mixed wastes"), RCRA applies to the nonradioactive hazardous constituents. It is the position of the Department of Energy that material containing SNM currently stored at the Plutonium Finishing Plant (PFP) is not a waste and is therefore not subject to management under RCRA.

In accordance with DOE implementation plans prepared in response to the Defense Nuclear Facility Safety Board (DNFSB) Recommendation 94-1, it is likely that the DOE will make a decision to discard some items or categories of material containing SNM currently in storage. A potential regulatory issue would then arise, because a decision to discard materials could impose RCRA management regulations while the materials are being prepared for disposal, to the extent these materials are mixed wastes. The existing storage and stabilization locations are not permitted for waste treatment, storage, or disposal under RCRA.

Regulatory Basis

The primary goal of RCRA is to ensure that solid wastes are managed in a manner that is safe and protective of human health and the environment. Some of the key features of RCRA include protection from spills or leaks to the environment, inspections and surveillance of waste storage areas, tracking to ensure control of material, and a permit system to facilitate regulatory oversight of the key requirements.

DOE requirements for protection of SNM provide equivalent protection of human health and the environment. Strict material accountability and tracking systems (safeguards) are used to prevent unauthorized diversion of materials. Periodic inspections and surveillance ensure both safety and safeguards requirements remain in place. Engineering design features are used in SNM storage facilities to prevent releases of SNM beyond facility boundaries. In addition, DOE requirements incorporate protection of workers from radiation hazards that are unique to nuclear facilities, including the As Low As Reasonably Achievable (ALARA) principle for exposure to radioactivity.

DOE accountability requirements (DOE 5633.3B) include clear definitions of conditions which allow SNM protection requirements to be terminated. The proposed management strategy is to define the "point of generation" for solid wastes to be the point at which SNM safeguards requirements are terminated for an item. In other words, continued storage, handling, and stabilization of safeguarded materials which contain SNM would be exempt

from RCRA/WAC regulation until an item is removed from vault storage and placed in a waste storage or handling area, and the item is "written off" the accountability inventory.

Materials which are in-process (items temporarily stored in gloveboxes, or process residues and sludges currently dispersed within or on equipment, piping, or surfaces) would continue to be managed as they are now; a decision to stabilize-and-store, or to package for discard, will be made after the material is collected in a container and assayed for plutonium content. The plutonium content and form of the material will determine both the costs for stabilization versus. discard, and the need for continued safeguards for the nuclear material. Once an item has been removed from safeguards controls and identified as a mixed waste and it will be handled according to applicable RCRA/WAC regulations, including satellite or less-than-90-day accumulation provisions if the item designates as a Dangerous Waste.

One of the key distinctions in this policy is defining the "point of generation" for mixed waste as being the point at which SNM safeguards are released. This allows storage, material handling, and stabilization activities to proceed under the controls of DOE nuclear safety, SNM safeguards, and Radiological Control requirements, avoiding conflicts between RCRA provisions and worker safety and ALARA issues. After an item has been declared waste and removed from safeguards, treatment-by-generator provisions of RCRA and the WAC could be used to facilitate safe material handling if necessary.

The net effect of the policy will be a compliance agreement within the TPA that allows designation of classes of materials as "waste" without initiating 90-day clock or permitting provisions of RCRA on individual containers until the material is in a state that allows its transfer to a permitted storage location.

(ATTACHMENT 5 )

# Complete Closure of Non-Permitted Mixed Waste Units, 324 Building REC and HLV

## Milestone M-89-00

M.A. Barnard, C.R. Delannoy
DOE-RL, Laboratory Management Division

February 27, 1996

# Milestone Descriptions

***M-89-00; TBE - Date Established following Approval of REC/HLV Closure Plan (M-20-55)***

**Complete closure of non-permitted mixed waste units in the 324 Building REC, B-Cell, REC D-Cell, and High Level Vault (HLV).**

***M-89-01; 10/31/96***

**Complete removal of 324 Building HLV tank MW (e.g., TK-104, TK-105, and TK-107) with the exception of residues which may remain following flushing and draining to the extent possible.**

***M-89-02; 5/31/99***

**Complete removal of 324 B-Cell Mixed Waste and equipment.**

| Site Management System | Pacific Northwest National Laboratory<br>WBS 1.7.1 - WASTE MANAGEMENT<br>Site Research | January 1996 |
|---|---|---|

# PROGRAM MANAGER'S ASSESSMENT

J.T. Fulton

The information contained within this report is complete and accurate to the best of my knowledge.

| WBS | PROGRAM | ES&H COMPLIANCE | CUSTOMER | TECHNICAL | SCHEDULE | COST | COMMENTS |
|---|---|---|---|---|---|---|---|
| 1.7.1 | EM-30 Science and Technology Research Support - Site Research | ▭ | ▭ | ▭ | ▭ | ▭ | **ES&H:** All TPA milestones for FY 1996 have been met. The work is continuing to finalize the Part B SAL/HWTU and the 324 Building REC Closure Plan. |
| 1.7.1.1.1 | S&T Compliance Ops (Defense) | ▭ | ▭ | ▭ | ▭ | ▭ | **Customer:** Additional line and program management attention and emphasis continue to be given to the program. |
| 1.7.1.1.2 | S&T Compliance Ops (Nondefense) | ▭ | ▭ | ▭ | ◇ | ◇ | **Technical:** The floor area is 74% cleared of debris and dispersible contamination. |
| | *324 Bldg B-Cell Restoration* | ▭ | ▭ | ◇ | ○▲ | ▭ | **Schedule:** CUM FY96 operating schedule variance is -$1204K for B-Cell. |
| 1.7.1.2 | Corrective Activities | ▭ | ▭ | ▭ | ◇ | ◇ | **Cost:** CUM FY96 operating cost variance is $439K for B-Cell. |
| 1.7.1.3 | Facility Projects | ▭ | ▭ | ▭ | ○ | ◇ | |

**Legend**

- ■ Outstanding
- ▭ Good
- ◇ Satisfactory
- ○ Marginal
- ● Unsatisfactory
- \+ Improved from last month
- \-- Worsened from last month
- ▲ Improved future outlook
- ▼ Worsened future outlook

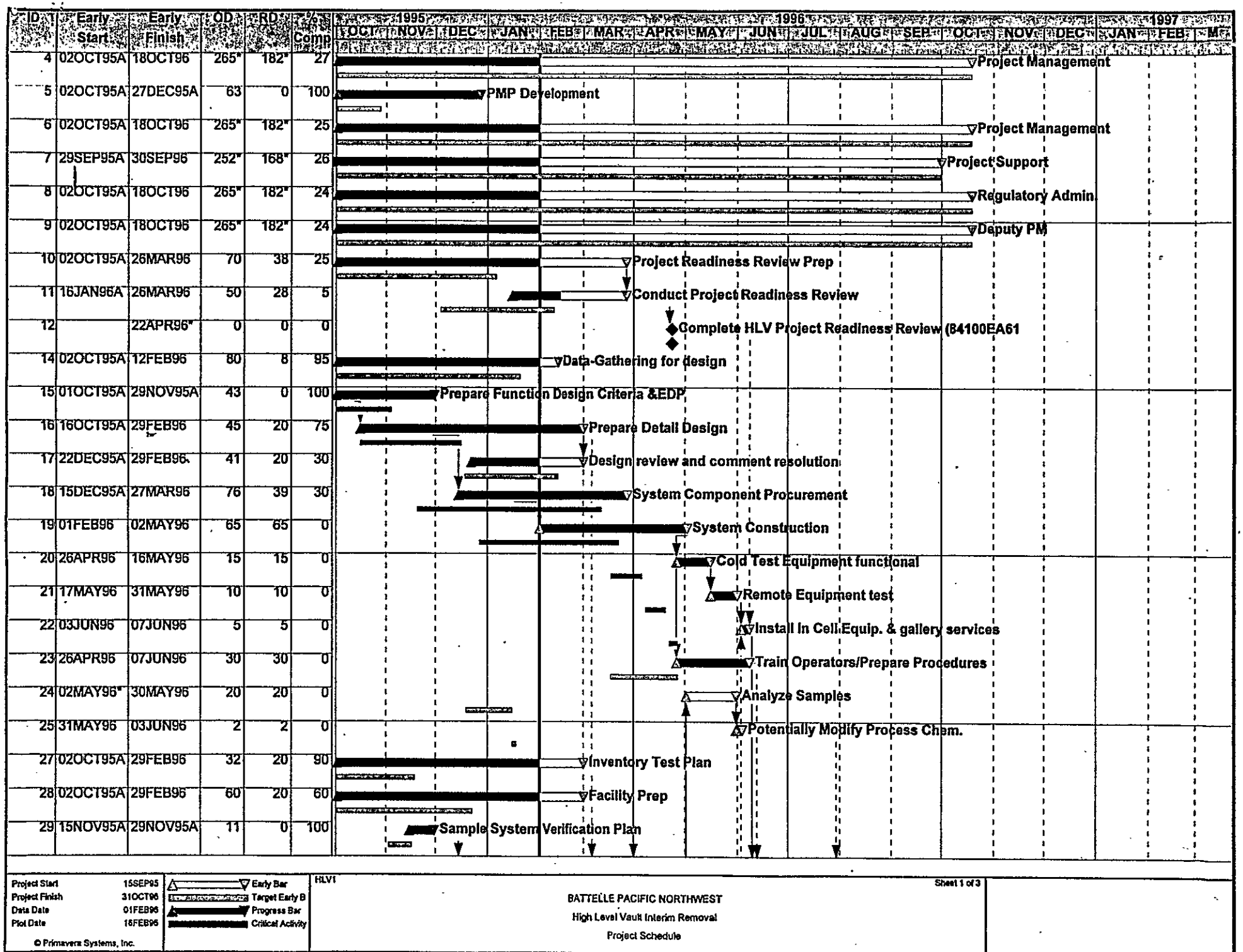
# Significant Planned Activities (next six months)

## *M-89-01; 10/31/96* - Complete removal of 324 Building HLV tank MW

- Complete construction of process equipment
- Operational testing of process system
- Installation of process system in D-cell
- Completion of Readiness Assessment
- Completion/Updates of operational planning documents (Waste Analysis Plan, Monitoring Plan, Training Plan) and Ecology notifications
- Initiation of waste processing in June 1996

## *M-89-01; 10/31/96* - Complete removal of 324 Building HLV tank MW

- Procurement placed for all major equipment and process materials
- PNNL notification for Operational Readiness Assessment to replace Operational Readiness Review for the project
- Completed data gathering for the design based on simulant tests and vendor information
- Initiated operational checkout and procedure update on existing jet transfer system for the HLV tanks and Tank 112 in B-cell
- Ecology concerns regarding secondary waste streams for the HLV processing were resolved
- HLV Interim Action Project Management Plan responsiveness summary was prepared and submitted to Ecology
- The design of the piping and instrument diagrams and the major equipment was completed for a design review - initial design review was completed


ID
Early Start
Early Finish
OD
RD
% Comp
1995
1996
1997
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
JAN
FEB
4 02OCT95A 18OCT96 265* 182* 27 Project Management
5 02OCT95A 27DEC95A 63 0 100 PMP Development
6 02OCT95A 18OCT96 265* 182* 25 Project Management
7 29SEP95A 30SEP96 252* 168* 26 Project Support
8 02OCT95A 18OCT96 265* 182* 24 Regulatory Admin
9 02OCT95A 18OCT96 265* 182* 24 Deputy PM
10 02OCT95A 26MAR96 70 38 25 Project Readiness Review Prep
11 16JAN96A 26MAR96 50 28 5 Conduct Project Readiness Review
12 22APR96* 0 0 0 Complete HLV Project Readiness Review (84100EA61
14 02OCT95A 12FEB96 80 8 95 Data-Gathering for design
15 01OCT95A 29NOV95A 43 0 100 Prepare Function Design Criteria &EDP
16 16OCT95A 29FEB96 45 20 75 Prepare Detail Design
17 22DEC95A 29FEB96 41 20 30 Design review and comment resolution
18 15DEC95A 27MAR96 76 39 30 System Component Procurement
19 01FEB96 02MAY96 65 65 0 System Construction
20 26APR96 16MAY96 15 15 0 Cold Test Equipment functional
21 17MAY96 31MAY96 10 10 0 Remote Equipment test
22 03JUN96 07JUN96 5 5 0 Install In Cell Equip. & gallery services
23 26APR96 07JUN96 30 30 0 Train Operators/Prepare Procedures
24 02MAY96* 30MAY96 20 20 0 Analyze Samples
25 31MAY96 03JUN96 2 2 0 Potentially Modify Process Chem.
27 02OCT95A 29FEB96 32 20 90 Inventory Test Plan
28 02OCT95A 29FEB96 60 20 60 Facility Prep
29 15NOV95A 29NOV95A 11 0 100 Sample System Verification Plan
Project Start 15SEP95
Project Finish 31OCT96
Data Date 01FEB96
Plot Date 16FEB96
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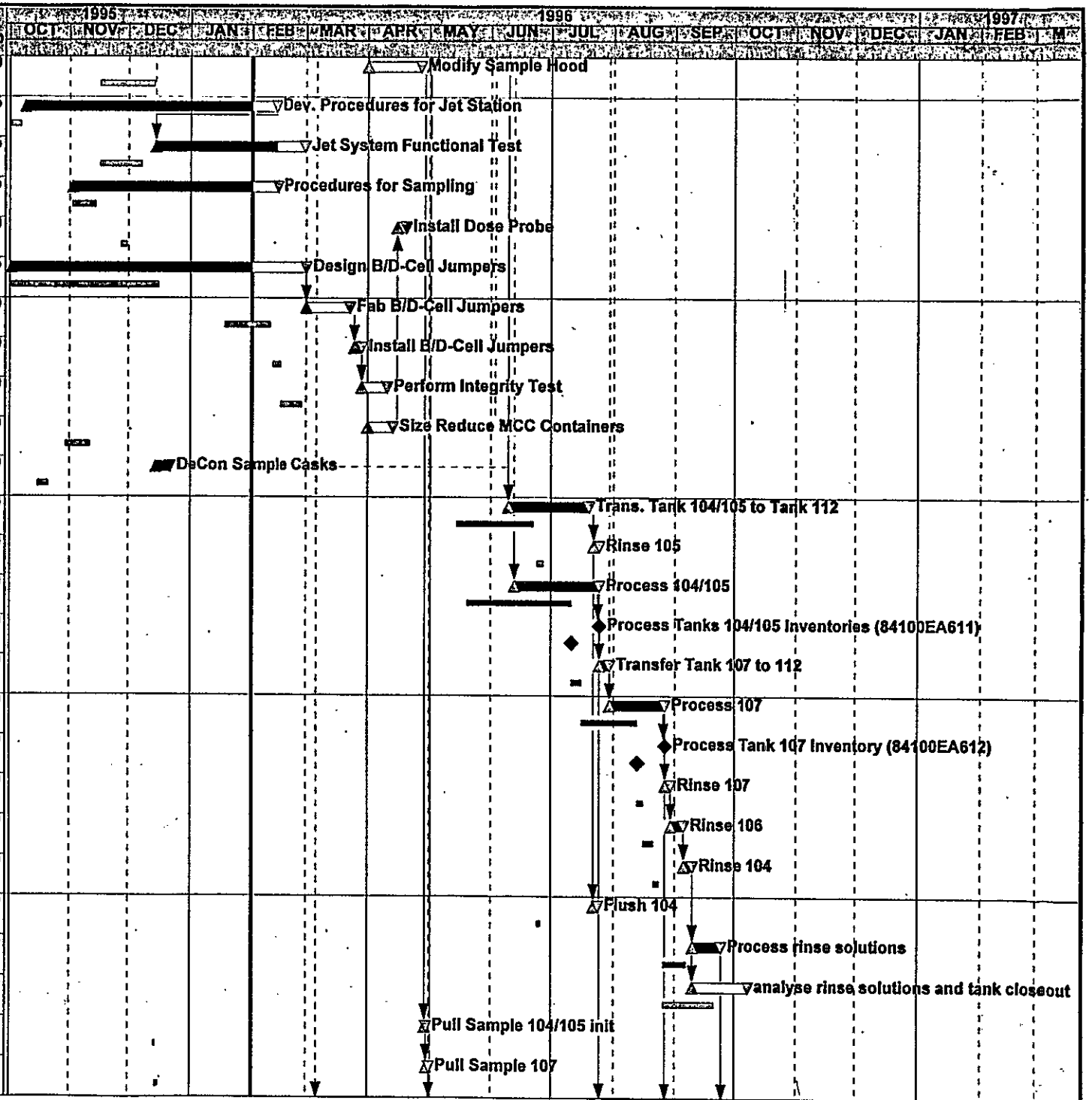
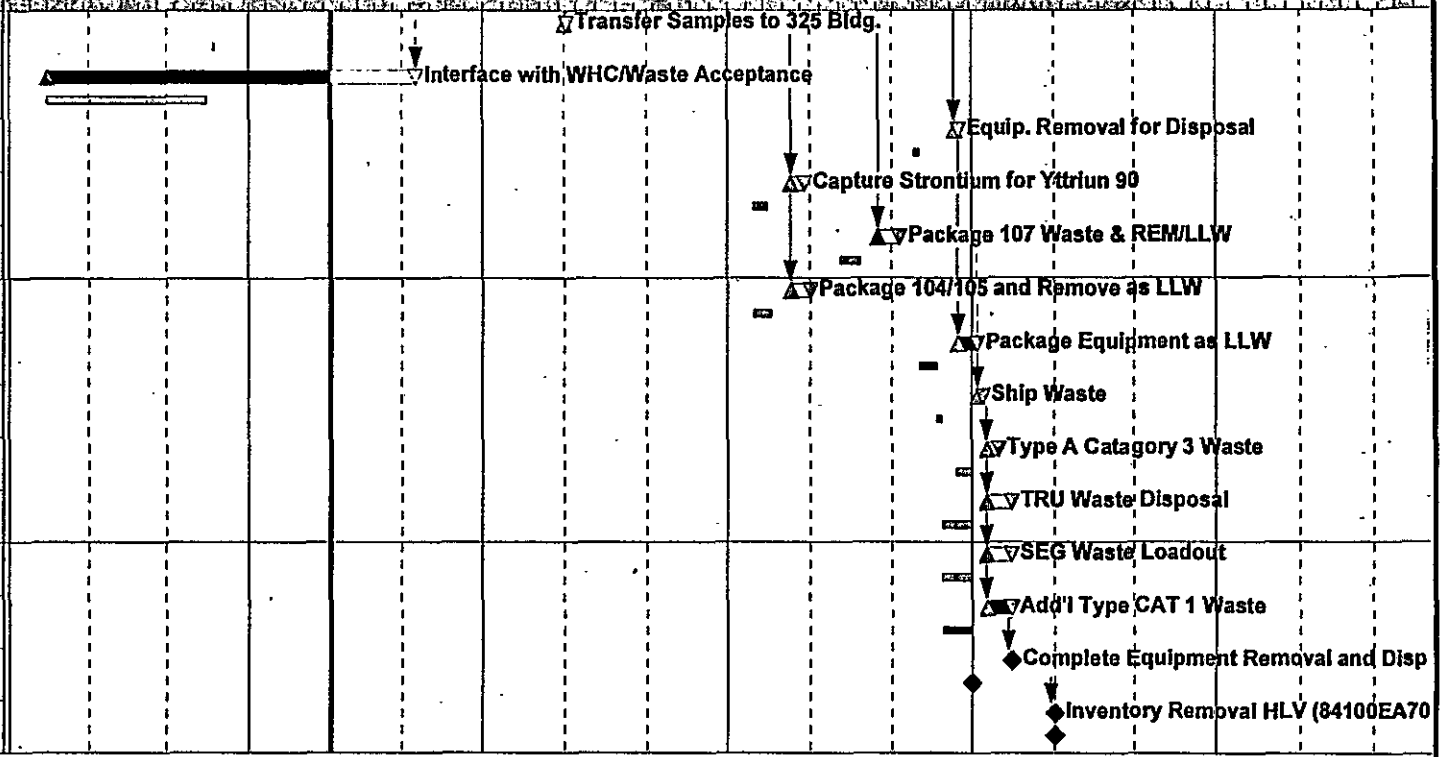
Early Bar
Target Early B
Progress Bar
Critical Activity
HLVI
BATTELLE PACIFIC NORTHWEST
High Level Vault Interim Removal
Project Schedule
Sheet 1 of 3

| ID | Early Start | Early Finish | OD | RD | % Comp |
|---|---|---|---|---|---|
| 30 | 01APR96* | 26APR96 | 20 | 20 | 0 |
| 31 | 09OCT95A | 13FEB96 | 15 | 9 | 95 |
| 32 | 15DEC95A | 28FEB96 | 15 | 10 | 75 |
| 33 | 02NOV95A | 14FEB96 | 21 | 10 | 95 |
| 34 | 15APR96* | 19APR96 | 5 | 5 | 0 |
| 36 | 02OCT95A | 29FEB96 | 55 | 20 | 65 |
| 37 | 01MAR96 | 22MAR96 | 16 | 16 | 0 |
| 38 | 25MAR96 | 28MAR96 | 4 | 4 | 0 |
| 39 | 29MAR96 | 09APR96 | 8 | 8 | 0 |
| 40 | 01APR96* | 12APR96 | 10 | 10 | 0 |
| 41 | 15DEC95A | 21DEC95A | 5 | 0 | 100 |
| 43 | 10JUN96 | 19JUL96 | 28 | 28 | 0 |
| 44 | 22JUL96 | 24JUL96 | 3 | 3 | 0 |
| 45 | 13JUN96 | 24JUL96 | 38 | 28 | 0 |
| 46 | | 24JUL96* | 0 | 0 | 0 |
| 47 | 25JUL96 | 29JUL96 | 3 | 3 | 0 |
| 48 | 30JUL96 | 26AUG96 | 20 | 20 | 0 |
| 49 | | 26AUG96* | 0 | 0 | 0 |
| 50 | 27AUG96 | 29AUG96 | 3 | 3 | 0 |
| 51 | 30AUG96 | 04SEP96 | 3 | 3 | 0 |
| 52 | 05SEP96 | 09SEP96 | 3 | 3 | 0 |
| 53 | 22JUL96 | 23JUL96 | 2 | 2 | 0 |
| 54 | 10SEP96 | 23SEP96 | 10 | 10 | 0 |
| 55 | 10SEP96 | 07OCT96 | 20 | 20 | 0 |
| 56 | 29APR96* | 29APR96 | 1 | 1 | 0 |
| 57 | 30APR96 | 30APR96 | 1 | 1 | 0 |



| ID | Early Start | Early Finish | OD | RD | % Comp |
|---|---|---|---|---|---|
| 58 | 01MAY96 | 01MAY96 | 1 | 1 | 0 |
| 60 | 16OCT95A | 05MAR96 | 45 | 23 | 75 |
| 61 | 24SEP96 | 25SEP96 | 2 | 2 | 0 |
| 62 | 25JUL96 | 29JUL96 | 3 | 3 | 0 |
| 63 | 27AUG96 | 03SEP96 | 5 | 5 | 0 |
| 64 | 25JUL96 | 31JUL96 | 5 | 5 | 0 |
| 65 | 26SEP96 | 02OCT96 | 5 | 5 | 0 |
| 66 | 03OCT96 | 04OCT96 | 2 | 2 | 0 |
| 67 | 07OCT96 | 10OCT96* | 4 | 4 | 0 |
| 68 | 07OCT96 | 15OCT96* | 7 | 7 | 0 |
| 69 | 07OCT96 | 15OCT96* | 7 | 7 | 0 |
| 70 | 07OCT96 | 15OCT96 | 7 | 7 | 0 |
| 72 | | 15OCT96 | 0 | 0 | 0 |
| 73 | | 31OCT96* | 0 | 0 | 0 |



# Milestone Cost and Schedule Status

| Earned Value Element | TPA Milestone No. M-89-01 |
|---|---|
| BCWS | 599 |
| BCWP | 295 |
| ACWP | 312 |
| SV | -304 |
| CV | -17 |
| FY96 BCWS ($1000's ) | 1,665 |

# HLV INTERIM ACTION - SCHEDULE DRIVERS (M-89-01)

- Design and Fabrication ($188K)
  - Procurement
  - Fab
  - Design

- Facility Preparation ($71K)
  - Sampling
  - Jet System Test

- Readiness Assessment ($37K)

# Milestone Assessment

*M-89-00; TBE - Date Established following Approval of REC/HLV Closure Plan (M-20-55)* **Complete closure of non-permitted mixed waste units in the 324 Building REC, B-Cell, REC D-Cell, and High Level Vault (HLV)**

- **Completed M-20-55 Milestone for submittal of closure plan for 324 Building REC/HLV**
- **DQO Planning Process underway to address outstanding issues**

*M-89-01; 10/31/96* **- Complete removal of 324 Building HLV tank MW (e.g., TK-104, TK-105, and TK-107) with the exception of residues which may remain following flushing and draining to the extent possible.**

- **HLV liquids processing is on schedule for milestone completion as planned (10/31/96)**
- **Corrective action planning in place to regain lost time in processing schedule**

*M-89-02; 5/31/99* **- Complete removal of 324 B-Cell Mixed Waste and equipment - on schedule for completion (74% of floor cleared of debris and dispersible contamination)**

# Summary

- Remaining tasks in FY96 will be focused on the finalization of the 324 Building REC MW Units closure plan
- Next M-89 milestone is M-89-01, HLV Liquids processing to begin in June 1996
- Continue to make progress on 324 Building B-Cell clean-out
- Appreciate the cooperative approach adopted by the Ecology and EPA in resolving M-89 milestone issues